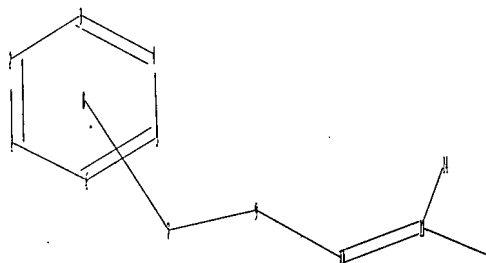
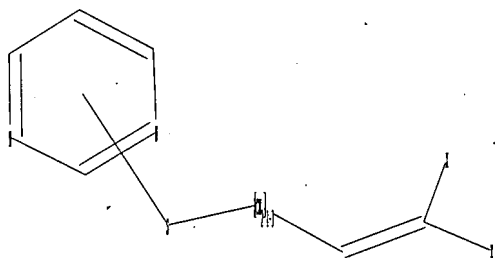


chain nodes :  
7 9 10 13 14 15  
ring nodes :  
1 2 3 4 5 6  
chain bonds :  
7-9 9-10 10-13 13-14 13-15  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6  
exact bonds :  
7-9 9-10 10-13 13-14 13-15  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS8:Atom 9:CLASS10:CLASS13:CLASS14:CLASS15:CLASS

=&gt;

Uploading C:\Program Files\Stnexp\Queries\10524438.str



chain nodes :

7 9 10 13 14 15

ring nodes :

1 2 3 4 5 6

chain bonds :

7-9 9-10 10-13 13-14 13-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact bonds :

7-9 9-10 10-13 13-14 13-15

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

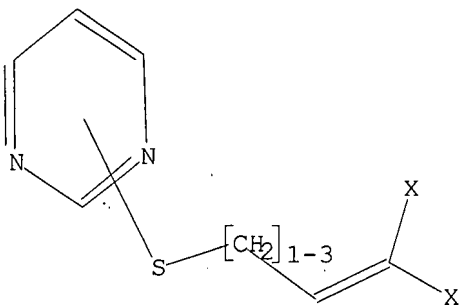
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS  
13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=&gt; d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=&gt; s l1 sss sam

SAMPLE SEARCH INITIATED 22:58:22 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

10/524,438

100.0% PROCESSED 21 ITERATIONS 7 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 146 TO 694  
PROJECTED ANSWERS: 7 TO 298

L2 7 SEA SSS SAM L1

=> => s l1 sss ful  
FULL SEARCH INITIATED 22:59:19 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 492 TO ITERATE

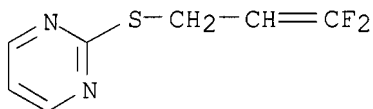
100.0% PROCESSED 492 ITERATIONS 196 ANSWERS  
SEARCH TIME: 00.00.01

L3 196 SEA SSS FUL L1

=> => s l3  
L4 14 L3

=> d l4 1-14 bib,ab,hitstr

L4 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2006:189309 CAPLUS  
 DN 146:228671  
 TI Product class 1: 1,1-bis(heteroatom-functionalized) allenes: product  
 subclass 1: 1,1-dihaloallenes  
 AU Kostikov, R. R.  
 CS Germany  
 SO Science of Synthesis (2006), Volume Date 2005; 24, 17-35  
 CODEN: SSCYJ9  
 PB Georg Thieme Verlag  
 DT Journal; General Review  
 LA English  
 AB A review of methods to prepare 1,1-dihaloallenes and applications to organic  
 synthesis.  
 IT 161064-32-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (review of preparation of dihaloallenes and application to organic  
 synthesis)  
 RN 161064-32-0 CAPLUS  
 CN Pyrimidine, 2-[(3,3-difluoro-2-propen-1-yl)thio]- (CA INDEX NAME)



RE.CNT 86      THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 14 CAPLUS. COPYRIGHT 2007 ACS on STN  
 AN 2006:119356 CAPLUS  
 DN 144:212791  
 TI Preparation of haloalkenes and their use as pesticides  
 IN Fujii, Katsutoshi; Nakamoto, Yasushi; Hatano, Koji; Kanetsuki, Yu  
 PA Ube Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 29 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

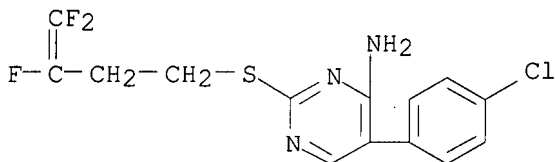
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006036706	A	20060209	JP 2004-220527	20040728
PRAI	JP 2004-220527		20040728		
OS	MARPAT 144:212791				

AB QA(CH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>CX:CF<sub>2</sub> [I: Q = Q<sub>1</sub>-Q<sub>3</sub>, etc.; R<sub>1</sub> = lower alkyl; R<sub>2</sub> = H, halo, lower haloalkyl(oxy), lower alkylsulfonyl; R<sub>3</sub> = H, lower haloalkyl, halo; R<sub>4</sub> = H, halo; R<sub>5</sub> = H, halo, lower alkyl; m = 0-2; X = H, F; A = O, S, SO, SO<sub>2</sub>; n = 1, 2] are prepared Thus, condensation of 2-tert-butyl-4-chloro-5-mercapto-3-(2H)-pyridazinone with 6,6-difluoro-5-hexenyl methanesulfonate gave I (Q = Q<sub>1</sub>, R<sub>1</sub> = Me<sub>3</sub>C, A = S, X = H, n = 2), which showed 100% acaricidal and 60-80% insecticidal activities.

IT 875583-78-1P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of haloalkenyl-modified heterocycles as insecticides, nematocides, and acaricides)

RN 875583-78-1 CAPLUS

CN 4-Pyrimidinamine, 5-(4-chlorophenyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-(9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2004:177920 CAPLUS  
 DN 140:235736  
 TI Preparation of fluorobutenylthioheteroarylpyrimidines as pesticides.  
 IN Fischer, Ruediger; Alig, Bernd; Bretschneider, Thomas; Maurer, Fritz;  
 Erdelen, Christoph; Konze, Joerg; Loesel, Peter; Watanabe, Yukiyo  
 PA Bayer CropScience A.-G., Germany  
 SO Ger. Offen., 55 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10238725	A1	20040304	DE 2002-10238725	20020823
	CA 2496306	A1	20040401	CA 2003-2496306	20030811
	WO 2004026858	A1	20040401	WO 2003-EP8881	20030811
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003271560	A1	20040408	AU 2003-271560	20030811
	EP 1534701	A1	20050601	EP 2003-753355	20030811
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003013751	A	20050621	BR 2003-13751	20030811
	CN 1688571	A	20051026	CN 2003-824608	20030811
	JP 2006508059	T	20060309	JP 2004-536934	20030811
	MX 2005PA01962	A	20050428	MX 2005-PA1962	20050218
	ZA 2005001457	A	20060426	ZA 2005-1457	20050218
	NO 2005001500	A	20050321	NO 2005-1500	20050321
	US 2006106042	A1	20060518	US 2005-524438	20050627
PRAI	DE 2002-10238725	A	20020823		
	WO 2003-EP8881	W	20030811		

OS MARPAT 140:235736.

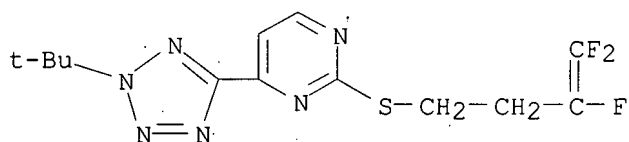
AB Title compds. [I; n = 0-2; R = H, F; X, Y, Z = H, NO<sub>2</sub>, cyano, CO<sub>2</sub>H, carbamoyl, thiocarbamoyl, OH, cyanato, thiocyanato, (substituted) alkyl, alkylcarbonyl, alkoxy, alkoxycarbonyl, alkylthio, alkylsulfonyl, dialkylaminocarbonyl, alkenyl, alkynyl, Ph, PhO, PhS, pyridyl, furyl, thienyl, etc.], were prepared. Thus, 4-chloro-2-[(4,4-difluoro-3-butenyl)sulfanyl]pyrimidine (preparation given), pyrazole, and Cs<sub>2</sub>CO<sub>3</sub> were refluxed 30 min. in MeCN to give 75% 2-[(4,4-difluoro-3-butenyl)sulfanyl]-4-(pyrazol-1-yl)pyrimidine. The latter at 500 ppm gave 99% kill of Myzus persicae on cabbage leaves.

IT 668436-82-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (preparation of fluorobutenylthioheteroarylpyrimidines as pesticides)

RN 668436-82-6 CAPLUS

CN Pyrimidine, 4-[2-(1,1-dimethylethyl)-2H-tetrazol-5-yl]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



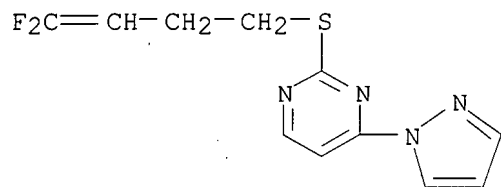
IT 668436-04-2P 668436-05-3P 668436-06-4P  
 668436-07-5P 668436-08-6P 668436-09-7P  
 668436-10-0P 668436-11-1P 668436-12-2P  
 668436-14-4P 668436-15-5P 668436-16-6P  
 668436-18-8P 668436-20-2P 668436-21-3P  
 668436-23-5P 668436-25-7P 668436-27-9P  
 668436-29-1P 668436-32-6P 668436-35-9P  
 668436-36-0P 668436-37-1P 668436-38-2P  
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 668436-42-8P 668436-43-9P 668436-44-0P  
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 668436-75-7P 668436-76-8P 668436-77-9P  
 668436-78-0P 668436-79-1P 668436-80-4P  
 668436-81-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of fluorobutenylthioheteroarylpyrimidines as pesticides)

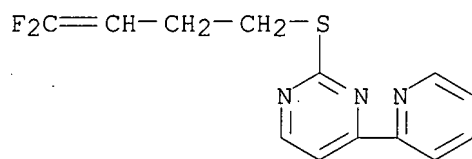
RN 668436-04-2 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(1H-pyrazol-1-yl)- (9CI)  
 (CA INDEX NAME)



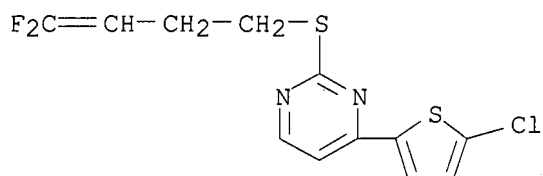
RN 668436-05-3 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2-pyridinyl)- (9CI) (CA INDEX NAME)



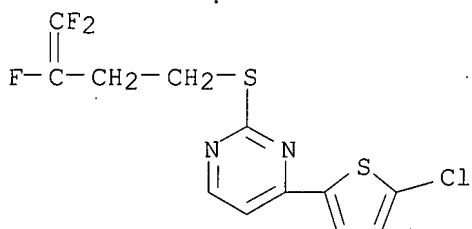
RN 668436-06-4 CAPLUS

CN Pyrimidine, 4-(5-chloro-2-thienyl)-2-[(4,4-difluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



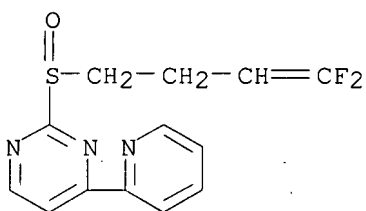
RN 668436-07-5 CAPLUS

CN Pyrimidine, 4-(5-chloro-2-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)



RN 668436-08-6 CAPLUS

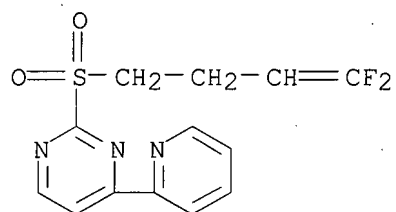
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfinyl]-4-(2-pyridinyl)- (9CI)  
(CA INDEX NAME)



RN 668436-09-7 CAPLUS

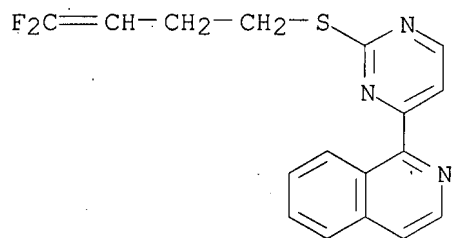
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfonyl]-4-(2-pyridinyl)- (9CI)  
(CA INDEX NAME)





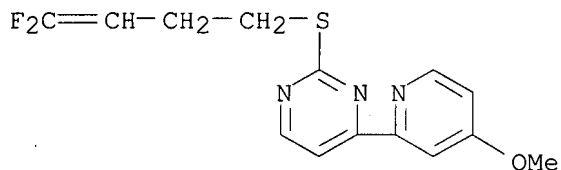
RN 668436-10-0 CAPLUS

CN Isoquinoline, 1-[2-[(4,4-difluoro-3-butenyl)thio]-4-pyrimidinyl]- (9CI)  
(CA INDEX NAME)



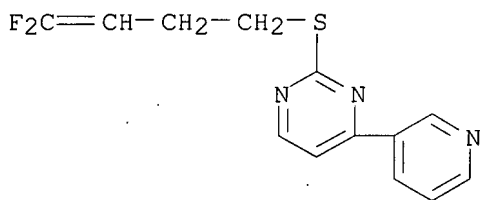
RN 668436-11-1 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-methoxy-2-pyridinyl)-  
(9CI) (CA INDEX NAME)



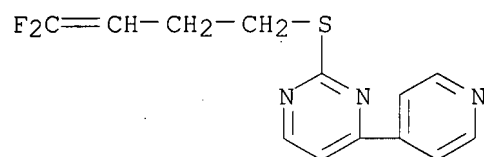
RN 668436-12-2 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(3-pyridinyl)- (9CI) (CA  
INDEX NAME)

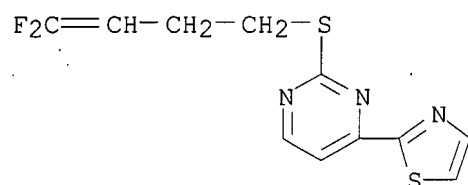


RN 668436-14-4 CAPLUS

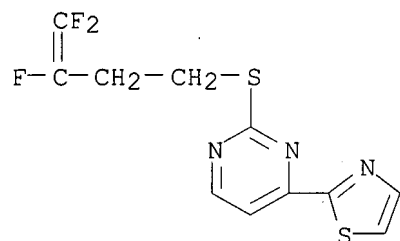
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-pyridinyl)- (9CI) (CA  
INDEX NAME)



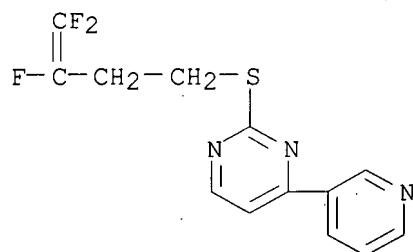
RN 668436-15-5 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2-thiazolyl)- (9CI) (CA INDEX NAME)



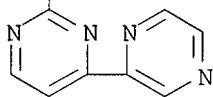
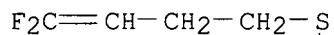
RN 668436-16-6 CAPLUS  
 CN Pyrimidine, 4-(2-thiazolyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 668436-18-8 CAPLUS  
 CN Pyrimidine, 4-(3-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

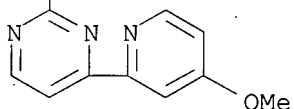
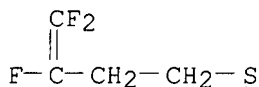


RN 668436-20-2 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-pyrazinyl- (9CI) (CA INDEX NAME)



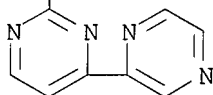
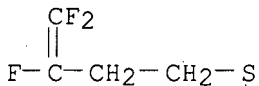
RN 668436-21-3 CAPLUS

CN Pyrimidine, 4-(4-methoxy-2-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)



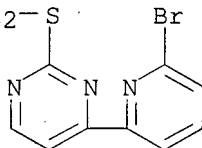
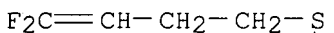
RN 668436-23-5 CAPLUS

CN Pyrimidine, 4-pyrazinyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA  
INDEX NAME)



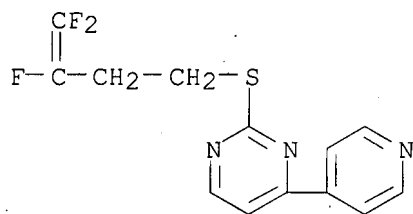
RN 668436-25-7 CAPLUS

CN Pyrimidine, 4-(6-bromo-2-pyridinyl)-2-[(4,4-difluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)



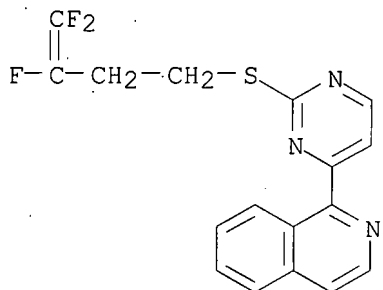
RN 668436-27-9 CAPLUS

CN Pyrimidine, 4-(4-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



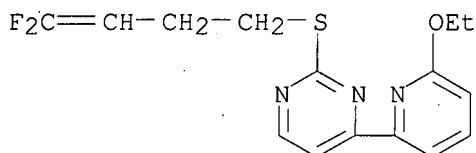
RN 668436-29-1 CAPLUS

CN Isoquinoline, 1-[2-[(3,4,4-trifluoro-3-butenyl)thio]-4-pyrimidinyl]- (9CI)  
(CA INDEX NAME)



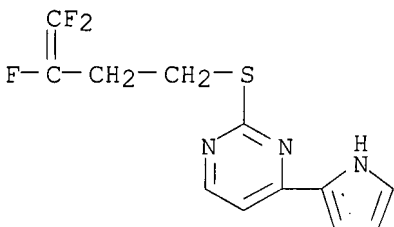
RN 668436-32-6 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(6-ethoxy-2-pyridinyl)-  
(9CI) (CA INDEX NAME)



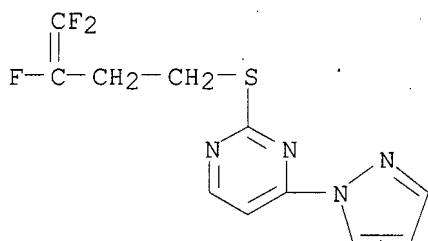
RN 668436-35-9 CAPLUS

CN Pyrimidine, 4-(1H-pyrrol-2-yl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)

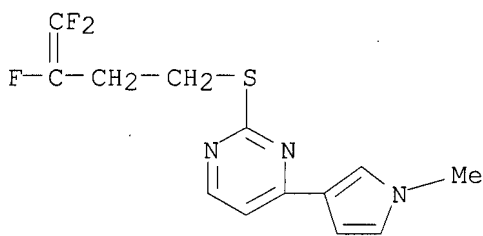


RN 668436-36-0 CAPLUS

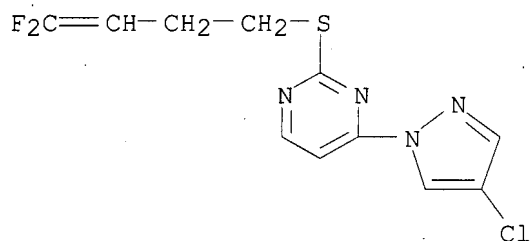
CN Pyrimidine, 4-(1H-pyrazol-1-yl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



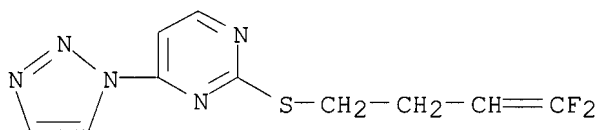
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 CN Pyrimidine, 4-(1-methyl-1H-pyrrol-3-yl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



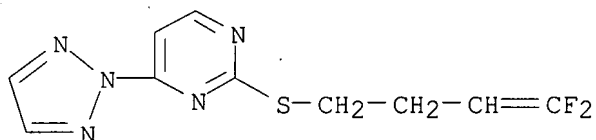
RN 668436-38-2 CAPLUS  
 CN Pyrimidine, 4-(4-chloro-1H-pyrazol-1-yl)-2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 668436-39-3 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(1H-1,2,3-triazol-1-yl)- (9CI) (CA INDEX NAME)

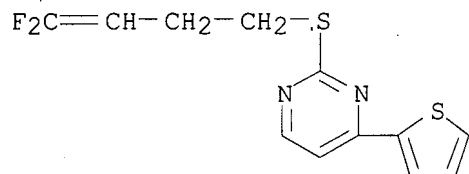


RN 668436-40-6 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2H-1,2,3-triazol-2-yl)- (9CI) (CA INDEX NAME)



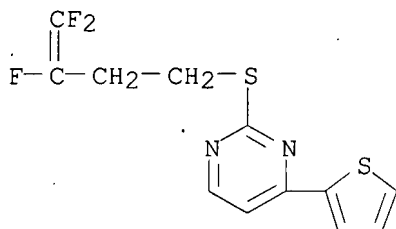
RN 668436-41-7 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2-thienyl)- (9CI) (CA INDEX NAME)



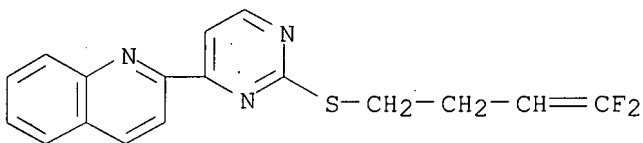
RN 668436-42-8 CAPLUS

CN Pyrimidine, 4-(2-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



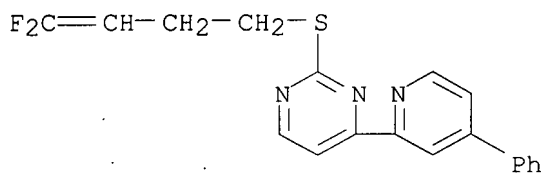
RN 668436-43-9 CAPLUS

CN Quinoline, 2-[2-[(4,4-difluoro-3-butenyl)thio]-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

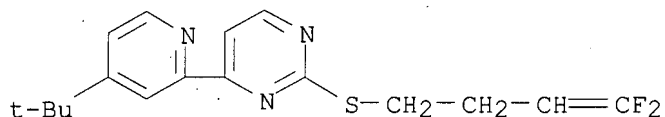


RN 668436-44-0 CAPLUS

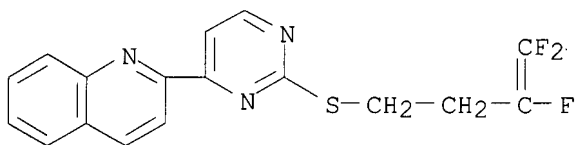
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-phenyl-2-pyridinyl)- (9CI) (CA INDEX NAME)



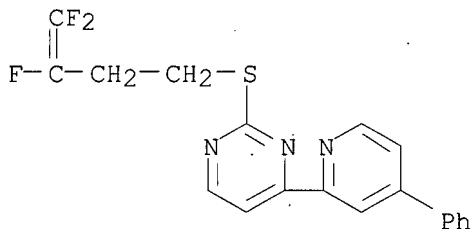
RN 668436-45-1 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-[4-(1,1-dimethylethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



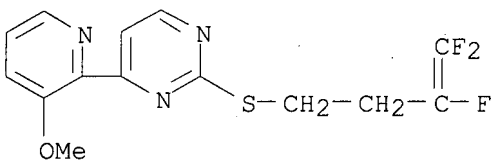
RN 668436-46-2 CAPLUS  
 CN Quinoline, 2-[2-[(3,4,4-trifluoro-3-butenyl)thio]-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



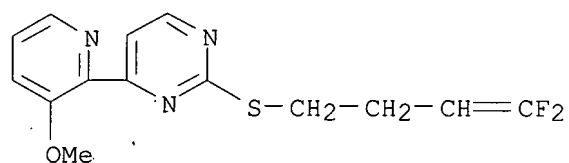
RN 668436-47-3 CAPLUS  
 CN Pyrimidine, 4-(4-phenyl-2-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 668436-48-4 CAPLUS  
 CN Pyrimidine, 4-(3-methoxy-2-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

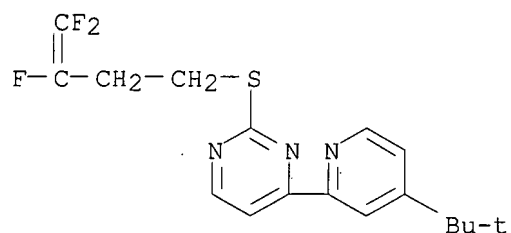


RN 668436-49-5 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(3-methoxy-2-pyridinyl)- (9CI) (CA INDEX NAME)



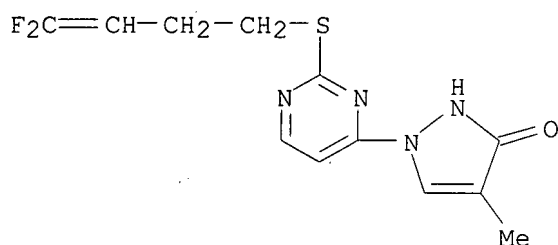
RN 668436-50-8 CAPLUS

CN Pyrimidine, 4-[4-(1,1-dimethylethyl)-2-pyridinyl]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



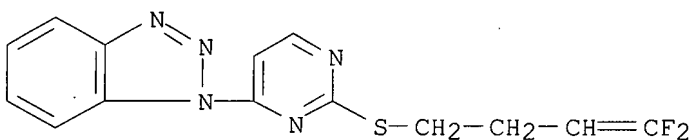
RN 668436-51-9 CAPLUS

CN 3H-Pyrazol-3-one, 1-[2-[(4,4-difluoro-3-butenyl)thio]-4-pyrimidinyl]-1,2-dihydro-4-methyl- (9CI) (CA INDEX NAME)



RN 668436-52-0 CAPLUS

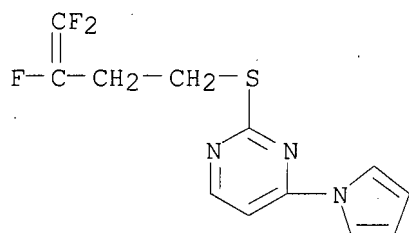
CN 1H-Benzotriazole, 1-[2-[(4,4-difluoro-3-butenyl)thio]-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



RN 668436-53-1 CAPLUS

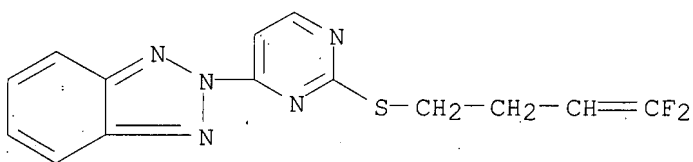
CN Pyrimidine, 4-(1H-pyrrol-1-yl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)





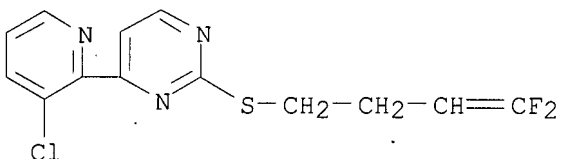
RN 668436-54-2 CAPLUS

CN 2H-Benzotriazole, 2-[2-[(4,4-difluoro-3-butenyl)thio]-4-pyrimidinyl]-  
(9CI) (CA INDEX NAME)



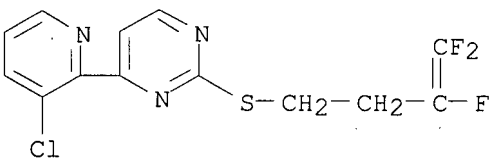
RN 668436-55-3 CAPLUS

CN Pyrimidine, 4-(3-chloro-2-pyridinyl)-2-[(4,4-difluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)



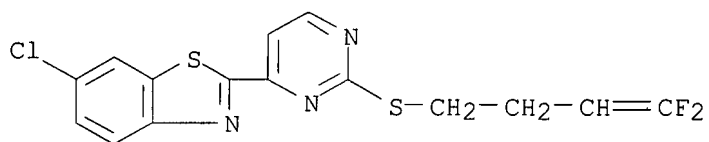
RN 668436-56-4 CAPLUS

CN Pyrimidine, 4-(3-chloro-2-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)



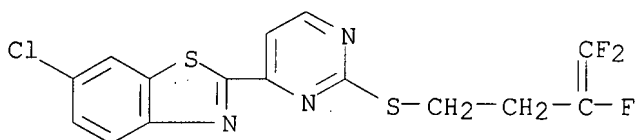
RN 668436-57-5 CAPLUS

CN Benzothiazole, 6-chloro-2-[2-[(4,4-difluoro-3-butenyl)thio]-4-pyrimidinyl]-  
(9CI) (CA INDEX NAME)



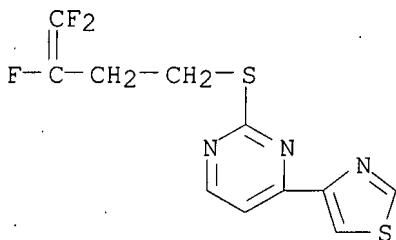
RN 668436-58-6 CAPLUS

CN Benzothiazole, 6-chloro-2-[2-[(3,4,4-trifluoro-3-butenyl)thio]-4-pyrimidinyl]- (9CI) (CA INDEX NAME)



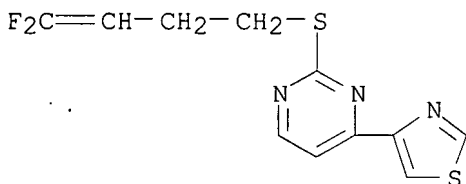
RN 668436-59-7 CAPLUS

CN Pyrimidine, 4-(4-thiazolyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



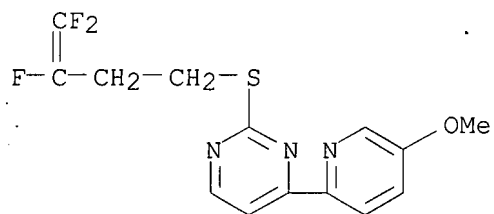
RN 668436-60-0 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-thiazolyl)- (9CI) (CA INDEX NAME)



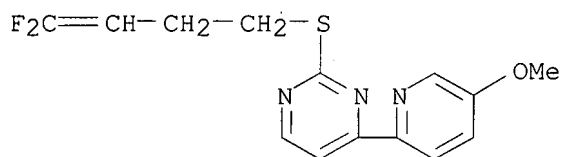
RN 668436-61-1 CAPLUS

CN Pyrimidine, 4-(5-methoxy-2-pyridinyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



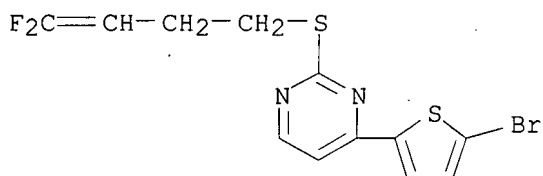
RN 668436-62-2 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(5-methoxy-2-pyridinyl)-  
(9CI) (CA INDEX NAME)



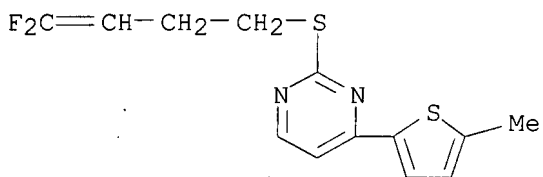
RN 668436-63-3 CAPLUS

CN Pyrimidine, 4-(5-bromo-2-thienyl)-2-[(4,4-difluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



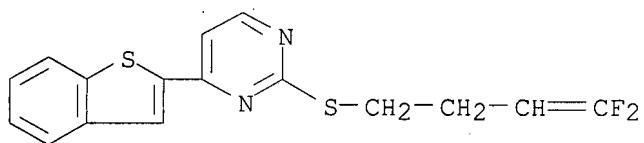
RN 668436-64-4 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(5-methyl-2-thienyl)- (9CI)  
(CA INDEX NAME)

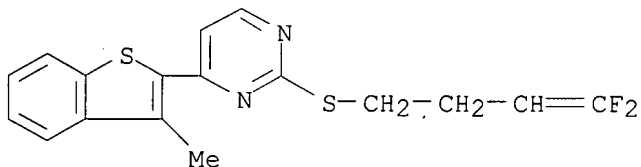


RN 668436-65-5 CAPLUS

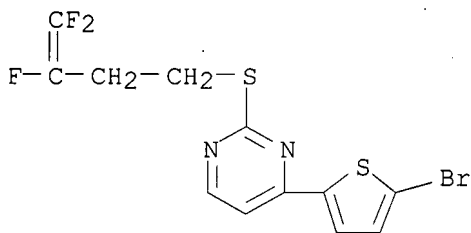
CN Pyrimidine, 4-benzo[b]thien-2-yl-2-[(4,4-difluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



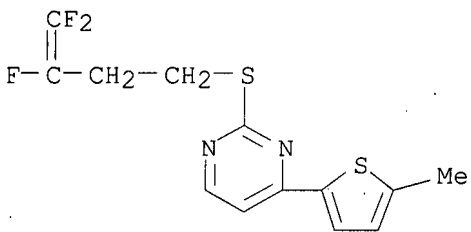
RN 668436-66-6 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(3-methylbenzo[b]thien-2-yl)-(9CI) (CA INDEX NAME)



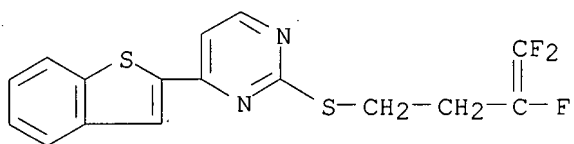
RN 668436-67-7 CAPLUS  
 CN Pyrimidine, 4-(5-bromo-2-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-(9CI) (CA INDEX NAME)



RN 668436-68-8 CAPLUS  
 CN Pyrimidine, 4-(5-methyl-2-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-(9CI) (CA INDEX NAME)

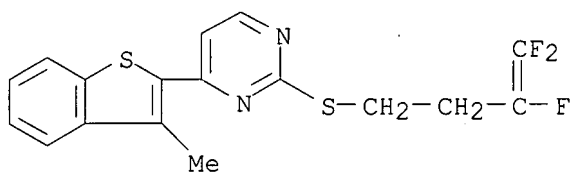


RN 668436-69-9 CAPLUS  
 CN Pyrimidine, 4-benzo[b]thien-2-yl-2-[(3,4,4-trifluoro-3-butenyl)thio]-(9CI) (CA INDEX NAME)



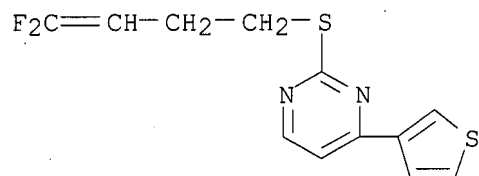
RN 668436-70-2 CAPLUS

CN Pyrimidine, 4-(3-methylbenzo[b]thien-2-yl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



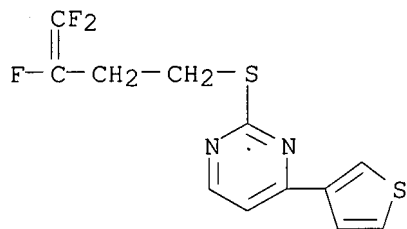
RN 668436-71-3 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(3-thienyl)- (9CI) (CA INDEX NAME)



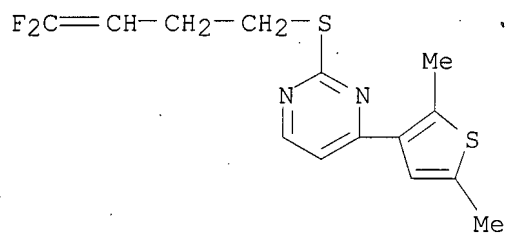
RN 668436-72-4 CAPLUS

CN Pyrimidine, 4-(3-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

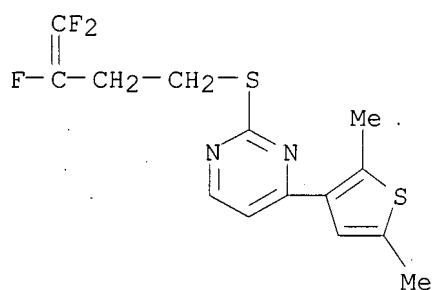


RN 668436-73-5 CAPLUS

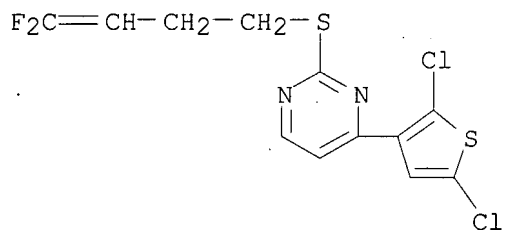
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2,5-dimethyl-3-thienyl)- (9CI) (CA INDEX NAME)



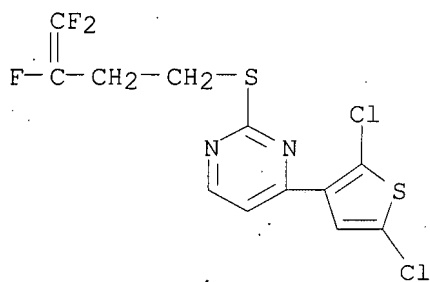
RN 668436-74-6 CAPLUS  
 CN Pyrimidine, 4-(2,5-dimethyl-3-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-  
 (9CI) (CA INDEX NAME)



RN 668436-75-7 CAPLUS  
 CN Pyrimidine, 4-(2,5-dichloro-3-thienyl)-2-[(4,4-difluoro-3-butenyl)thio]-  
 (9CI) (CA INDEX NAME)

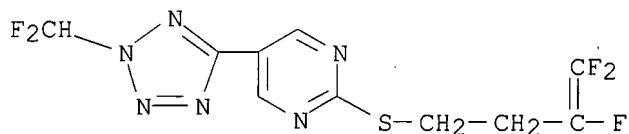


RN 668436-76-8 CAPLUS  
 CN Pyrimidine, 4-(2,5-dichloro-3-thienyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]-  
 (9CI) (CA INDEX NAME)



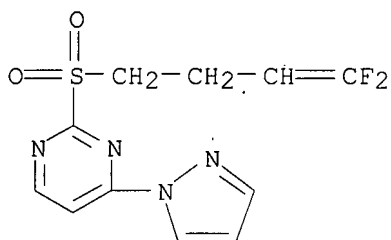
RN 668436-77-9 CAPLUS

CN Pyrimidine, 5-[2-(difluoromethyl)-2H-tetrazol-5-yl]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



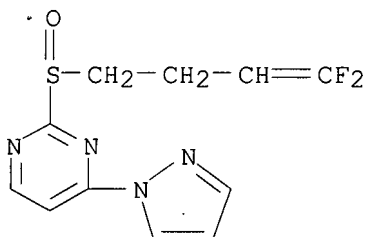
RN 668436-78-0 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfonyl]-4-(1H-pyrazol-1-yl)- (9CI) (CA INDEX NAME)



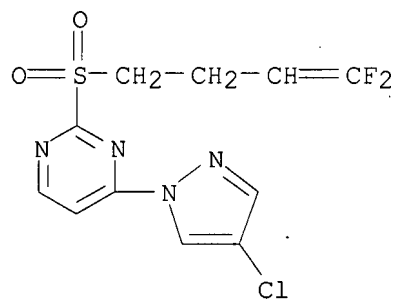
RN 668436-79-1 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfinyl]-4-(1H-pyrazol-1-yl)- (9CI) (CA INDEX NAME)



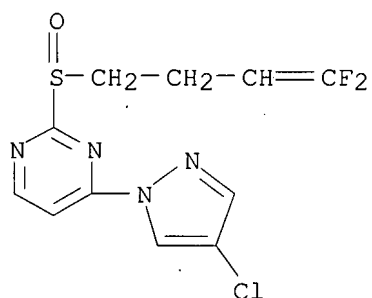
RN 668436-80-4 CAPLUS

CN Pyrimidine, 4-(4-chloro-1H-pyrazol-1-yl)-2-[(4,4-difluoro-3-butenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 668436-81-5 CAPLUS

CN Pyrimidine, 4-(4-chloro-1H-pyrazol-1-yl)-2-[(4,4-difluoro-3-butenyl)sulfinyl]- (9CI) (CA INDEX NAME)

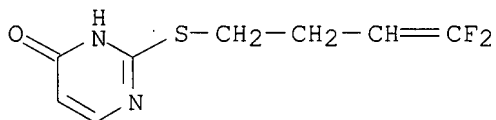


IT 155957-18-9P 155957-30-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of fluorobutenylthioheteroarylpyrimidines as pesticides)

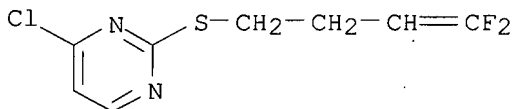
RN 155957-18-9 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 155957-30-5 CAPLUS

CN Pyrimidine, 4-chloro-2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)





L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1996:428543 CAPLUS  
 DN 125:86634  
 TI Pesticidal heterocyclic and phenyl compounds  
 IN Smith, Alison Mary  
 PA Zeneca Limited, UK  
 SO Brit. UK Pat. Appl., 112 pp.  
 CODEN: BAXXDU  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2293380	A	19960327	GB 1995-18703	19950913
PRAI	GB 1994-19083	A	19940922		
	GB 1994-19085	A	19940922		

OS MARPAT 125:86634

AB RS(O)<sub>n</sub>CH<sub>2</sub>CH<sub>2</sub>CMe:CF<sub>2</sub> [n = 0, 1, 2; R = (un)substituted Ph, furyl, thienyl, nitrogen heterocycle] have nematocidal, insecticidal, and acaricidal activity. Thus, MeCH:CHCO<sub>2</sub>H was treated with CF<sub>2</sub>Br<sub>2</sub> to give BrCF<sub>3</sub>CHMeCH<sub>2</sub>CO<sub>2</sub>H which was reduced to the alc., tosylated, and treated with 2-mercaptobenzothiazole and dehydrobrominated to give the sulfide I. I gave 96% mortality of Meloidogyne incognita at 1.65 ppm. Pharmaceutical and veterinary formulations are also reported. Insecticidal and acaricidal data are not reported.

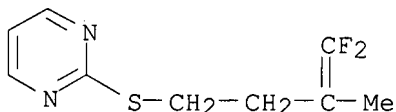
IT 178628-60-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nematocidal difluoromethylbutenylthiobenzothiazoles and related compds.)

RN 178628-60-9 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-methyl-3-butenyl)thio]- (9CI) (CA INDEX NAME)



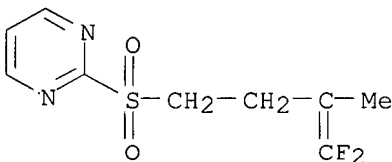
IT 178628-70-1P

RL: AGR (Agricultural use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of nematocidal difluoromethylbutenylthiobenzothiazoles and related compds.)

RN 178628-70-1 CAPLUS

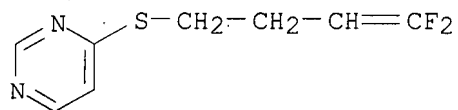
CN Pyrimidine, 2-[(4,4-difluoro-3-methyl-3-butenyl)sulfonyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1995:652321 CAPLUS  
 DN 123:55860  
 TI Process for the preparation of 1-(heterocyclylthio)-4,4-difluoro-3-butene-  
 derivative nematicides  
 IN Turnbull, Michael Drysdale; Willetts, Nigel James; Fitzjohn, Steven;  
 Kholia, Prafula Govind; Smith, Alison Mary; Salmon, Roger; Bansal,  
 Harjinder Singh; Williams, Alfred Glyn  
 PA Zeneca Ltd., UK  
 SO PCT Int. Appl., 33 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

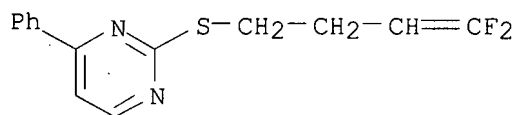
*Same as #7*

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9504727	A1	19950216	WO 1994-GB1570	19940720
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9471930	A	19950228	AU 1994-71930	19940720
	EP 712395	A1	19960522	EP 1994-921059	19940720
	EP 712395	B1	20020522		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	HU 73351	A2	19960729	HU 1995-3825	19940720
	HU 218575	B	20001028		
	CN 1128535	A	19960807	CN 1994-192999	19940720
	BR 9407164	A	19960917	BR 1994-7164	19940720
	JP 09501175	T	19970204	JP 1995-506270	19940720
	JP 3472304	B2	20031202		
	AT 217869	T	20020615	AT 1994-921059	19940720
	ES 2177580	T3	20021216	ES 1994-921059	19940720
	IL 110432	A	20000716	IL 1994-110432	19940725
	ZA 9405561	A	19950328	ZA 1994-5561	19940727
	US 5728833	A	19980317	US 1994-286142	19940804
	US 5914423	A	19990622	US 1997-976559	19971124
PRAI	GB 1993-16219	A	19930805		
	GB 1993-16220	A	19930805		
	GB 1993-25453	A	19931213		
	GB 1993-25455	A	19931213		
	WO 1994-GB1570	W	19940720		
	US 1994-286142	A3	19940804		
OS	CASREACT 123:55860; MARPAT 123:55860				
AB	The title compds. XSCH <sub>2</sub> CH <sub>2</sub> CH:CF <sub>2</sub> [X = (un)substituted 5- or 6-membered heterocyclyl] [e.g., 2-(4,4-difluorobut-3-enylthio)-5-methylbenzoxazole; oil], useful as nematicides (no data), are prepared in high yield by the condensation of XSH with CF <sub>2</sub> :CHCH <sub>2</sub> CH <sub>2</sub> L [L = Cl, Br, OSO <sub>2</sub> Ra; Ra = is 4-chloroalkyl, Ph (un)substituted by 4-chloroalkyl].				
IT	155957-00-9P 155957-01-0P 155957-04-3P 155957-06-5P 155957-07-6P RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (process for the preparation of 1-(heterocyclylthio)-4,4-difluoro-3-butene- derivative nematicides)				
RN	155957-00-9 CAPLUS				
CN	Pyrimidine, 4-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)				



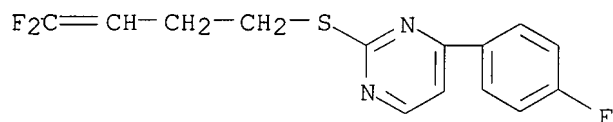
RN 155957-01-0 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-phenyl- (9CI) (CA INDEX NAME)



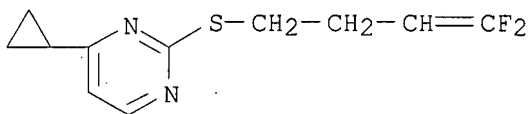
RN 155957-04-3 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



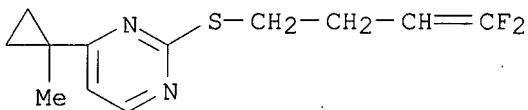
RN 155957-06-5 CAPLUS

CN Pyrimidine, 4-cyclopropyl-2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

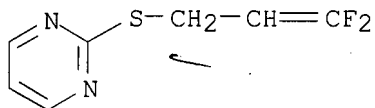


RN 155957-07-6 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(1-methylcyclopropyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1995:321000 CAPLUS  
 DN 122:132248  
 TI Facile nucleophilic addition of thiols to 1,1-difluoroallene: a convenient approach to  $\gamma,\gamma$ -difluoroallyl sulfides  
 AU Xu, Yuan-yao; Jin, Fu-qiang; Huang, Wei-yuan  
 CS Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai, 200032, Peop. Rep. China  
 SO Journal of Fluorine Chemistry (1995), 70(1), 5-6  
 CODEN: JFLCAR; ISSN: 0022-1139  
 PB Elsevier  
 DT Journal  
 LA English  
 OS CASREACT 122:132248  
 AB In the presence of base, nucleophilic addns. of thiols RSH (R = Ph, substituted Ph, heterocycllyl) to 1,1-difluoroallene occur readily, yielding  $\gamma,\gamma$ -difluoroallyl sulfides  $\text{CF}_2\text{:CHCH}_2\text{SR}$  in high yield.  
 IT 161064-32-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of difluoroallyl sulfides by addition of thiols to difluoroallene)  
 RN 161064-32-0 CAPLUS  
 CN Pyrimidine, 2-[(3,3-difluoro-2-propen-1-yl)thio]- (CA INDEX NAME)



L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1994:557663 CAPLUS  
 DN 121:157663  
 TI Preparation of heterocyclic compounds as pesticides  
 IN Fitzjohn, Steven; Robinson, Michael Peter; Turnbull, Michael Drysdale  
 PA Zeneca Ltd., UK  
 SO PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

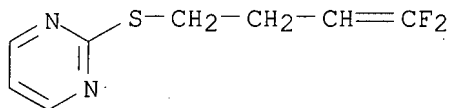
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9406777	A1	19940331	WO 1993-GB1912	19930910
	W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	GB 2270688	A	19940323	GB 1993-18737	19930909
	AU 9349777	A	19940412	AU 1993-49777	19930910
	ZA 9306708	A	19940519	ZA 1993-6708	19930910
	CN 1098718	A	19950215	CN 1993-119093	19930910
	CN 1041922	B	19990203		
	EP 660827	A1	19950705	EP 1994-910243	19930910
	EP 660827	B1	19970416		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 08503932	T	19960430	JP 1993-507886	19930910
	AT 151757	T	19970515	AT 1994-910243	19930910
	ES 2100706	T3	19970616	ES 1994-910243	19930910
	US 5684011	A	19971104	US 1996-653099	19960524
PRAI	GB 1992-19635	A	19920916		
	US 1993-119920	B1	19930910		
	WO 1993-GB1912	W	19930910		
OS	MARPAT 121:157663				
AB	Title compds. I (R1 = F2C=CHCH2CH2(O)nS, n = 0-2; R2, R3, R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, (substituted) aryl, (substituted) arylalkyl, (substituted) aryloxy, (substituted) arylalkoxy, alkoxy, alkenylthio, halo, HO, NC, O2N, etc., adjacent pair of R2, R3 and R4 when taken together form a fused 5- or 6-membered carbocyclic or heterocyclic ring) having, acaricidal, fungicidal, insecticidal and nematocidal activities, are prepared K2CO3 2-mercaptopyrimidine, and 2-(2-bromoethyl)-1,3-dioxolane were refluxed for 3.5 h to give 2-[2-(1,3-dioxolan-2-yl)ethylthio]pyrimidine which in THF was treated with HCl at ambient temperature for 30 h to give 2-(3-oxopropylthio)pyrimidine; this and CBr2F2 in AcNMe2 was reacted with Ph3P to give I (R1 = R2 = R3 = 5-H, 5-H and 6-H, resp., R4 = 2-F2C=CHCH2CH2S) (II). II at 500 ppm showed 80-100% mortality against spider mite, green peach aphid, tobacco budworm-larva and banded cucumber beetle-larva.				
IT	155956-99-3P	155957-00-9P	155957-01-0P		
	155957-02-1P	155957-03-2P	155957-04-3P		
	155957-05-4P	155957-06-5P	155957-07-6P		
	155957-08-7P	155957-09-8P	155957-10-1P		
	155957-11-2P	155957-12-3P	155957-13-4P		
	155957-14-5P	155957-15-6P	155957-16-7P		
	155957-17-8P	155957-18-9P	155957-19-0P		
	155957-20-3P	155957-21-4P	155957-22-5P		
	155957-23-6P	155957-24-7P	155957-25-8P		
	155957-26-9P	155957-27-0P	155957-28-1P		
	155957-29-2P	155957-30-5P	155957-31-6P		
	155957-32-7P	155957-33-8P	155957-34-9P		

155957-35-0P 155957-36-1P 155957-37-2P  
 155957-38-3P 155957-39-4P 155957-40-7P  
 155957-41-8P 155957-65-6P 155957-66-7P  
 155957-68-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as pesticide)

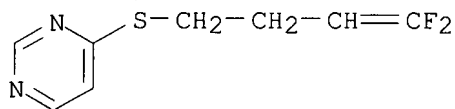
RN 155956-99-3 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



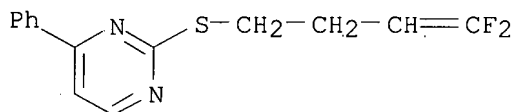
RN 155957-00-9 CAPLUS

CN Pyrimidine, 4-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



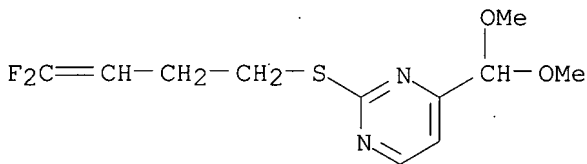
RN 155957-01-0 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-phenyl- (9CI) (CA INDEX NAME)



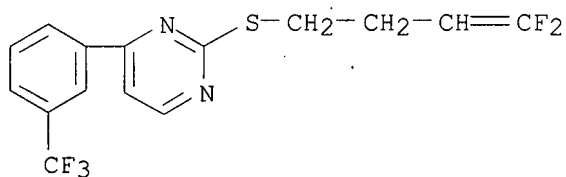
RN 155957-02-1 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(dimethoxymethyl)- (9CI) (CA INDEX NAME)

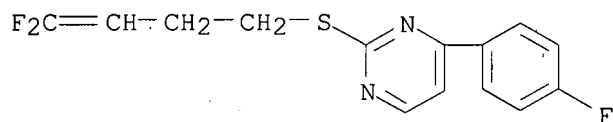


RN 155957-03-2 CAPLUS

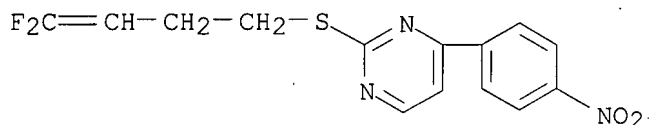
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



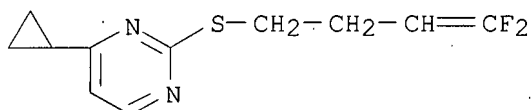
RN 155957-04-3 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-fluorophenyl)- (9CI)  
(CA INDEX NAME)

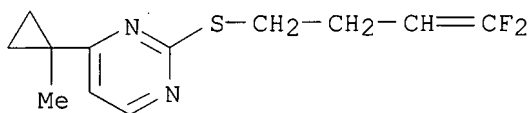
RN 155957-05-4 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(4-nitrophenyl)- (9CI) (CA  
INDEX NAME)

RN 155957-06-5 CAPLUS

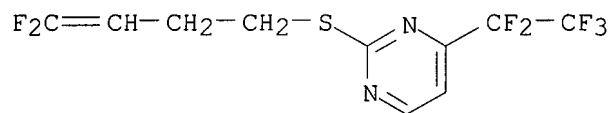
CN Pyrimidine, 4-cyclopropyl-2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA  
INDEX NAME)

RN 155957-07-6 CAPLUS

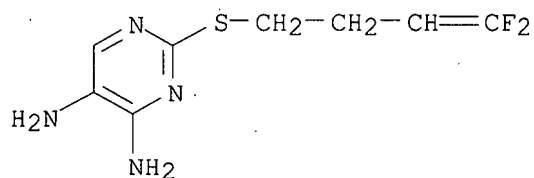
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(1-methylcyclopropyl)-  
(9CI) (CA INDEX NAME)

RN 155957-08-7 CAPLUS

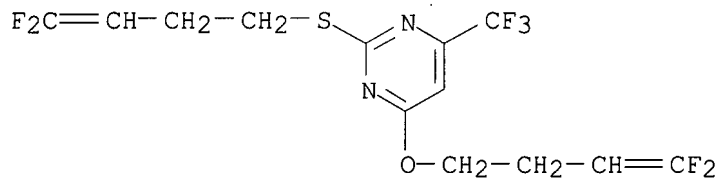
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(pentafluoroethyl)- (9CI)  
(CA INDEX NAME)



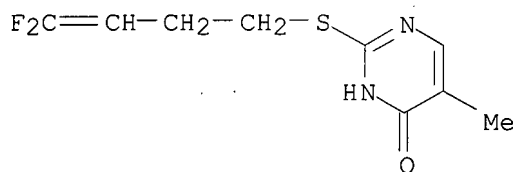
RN 155957-09-8 CAPLUS  
 CN 4,5-Pyrimidinediamine, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



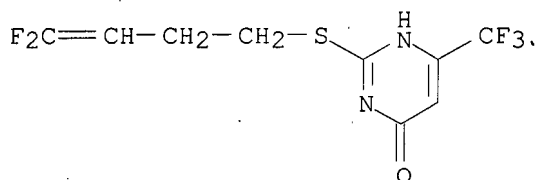
RN 155957-10-1 CAPLUS  
 CN Pyrimidine, 4-[(4,4-difluoro-3-butenyl)oxy]-2-[(4,4-difluoro-3-butenyl)thio]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 155957-11-2 CAPLUS  
 CN 4(1H)-Pyrimidinone, 2-[(4,4-difluoro-3-butenyl)thio]-5-methyl- (9CI) (CA INDEX NAME)

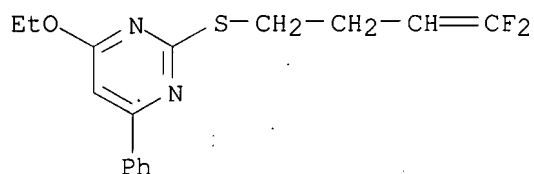


RN 155957-12-3 CAPLUS  
 CN 4(1H)-Pyrimidinone, 2-[(4,4-difluoro-3-butenyl)thio]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

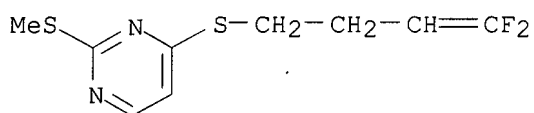




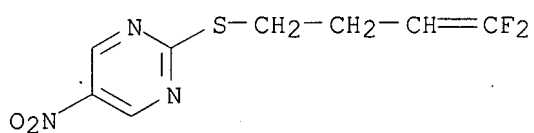
RN 155957-13-4 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethoxy-6-phenyl- (9CI) (CA INDEX NAME)



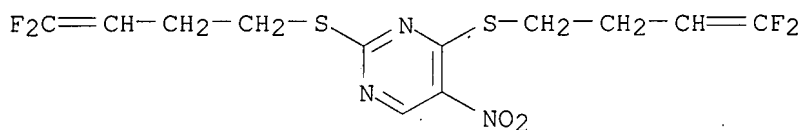
RN 155957-14-5 CAPLUS  
 CN Pyrimidine, 4-[(4,4-difluoro-3-butenyl)thio]-2-(methylthio)- (9CI) (CA INDEX NAME)



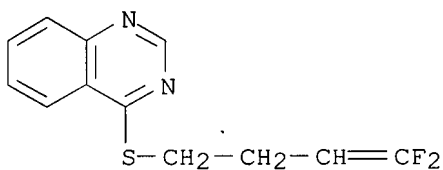
RN 155957-15-6 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-5-nitro- (9CI) (CA INDEX NAME)



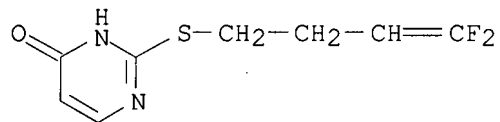
RN 155957-16-7 CAPLUS  
 CN Pyrimidine, 2,4-bis[(4,4-difluoro-3-butenyl)thio]-5-nitro- (9CI) (CA INDEX NAME)



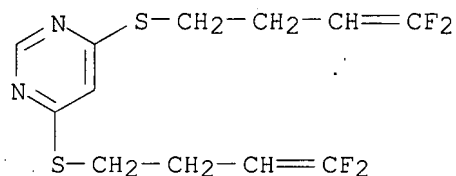
RN 155957-17-8 CAPLUS  
 CN Quinazoline, 4-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



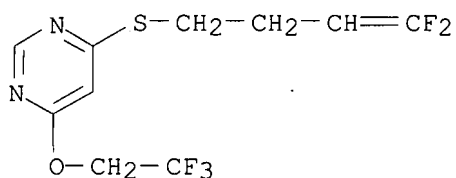
RN 155957-18-9 CAPLUS  
 CN 4(1H)-Pyrimidinone, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



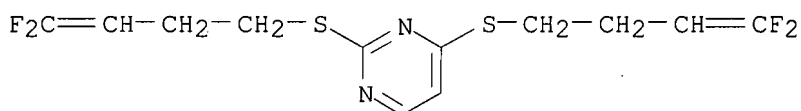
RN 155957-19-0 CAPLUS  
 CN Pyrimidine, 4,6-bis[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



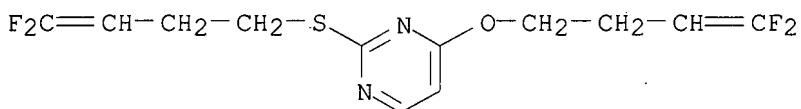
RN 155957-20-3 CAPLUS  
 CN Pyrimidine, 4-[(4,4-difluoro-3-butenyl)thio]-6-(2,2,2-trifluoroethoxy)- (9CI) (CA INDEX NAME)



RN 155957-21-4 CAPLUS  
 CN Pyrimidine, 2,4-bis[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

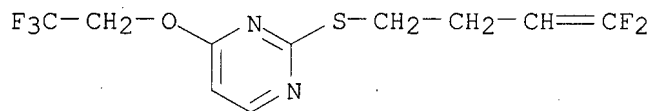


RN 155957-22-5 CAPLUS  
 CN Pyrimidine, 4-[(4,4-difluoro-3-butenyl)oxy]-2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



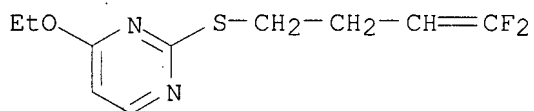
RN 155957-23-6 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2,2,2-trifluoroethoxy)-

(9CI) (CA INDEX NAME)



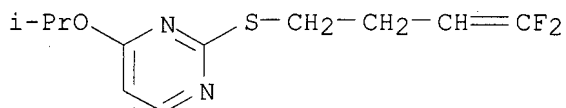
RN 155957-24-7 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethoxy- (9CI) (CA INDEX NAME)



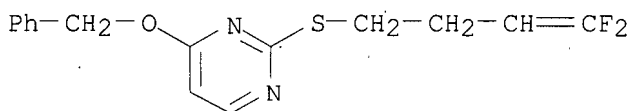
RN 155957-25-8 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(1-methylethoxy)- (9CI) (CA INDEX NAME)



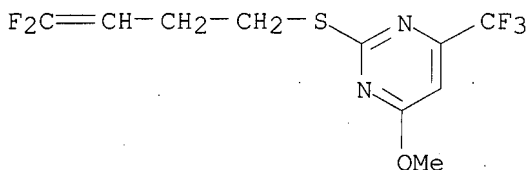
RN 155957-26-9 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(phenylmethoxy)- (9CI) (CA INDEX NAME)



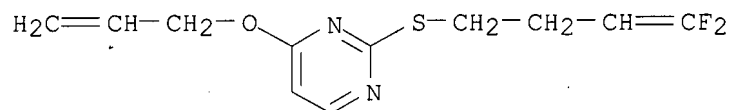
RN 155957-27-0 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-methoxy-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

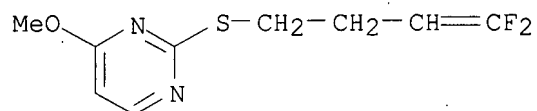


RN 155957-28-1 CAPLUS

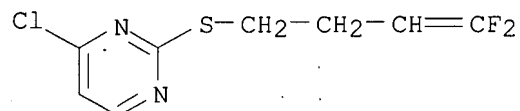
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-(2-propenyloxy)- (9CI) (CA INDEX NAME)



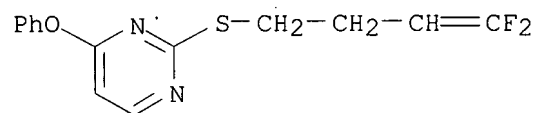
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 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-methoxy- (9CI) (CA INDEX NAME)



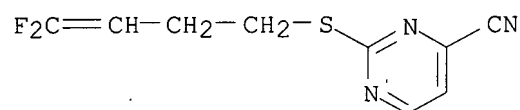
RN 155957-30-5 CAPLUS  
 CN Pyrimidine, 4-chloro-2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



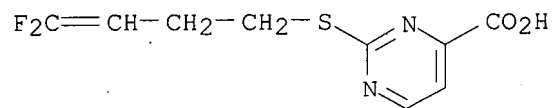
RN 155957-31-6 CAPLUS  
 CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-phenoxy- (9CI) (CA INDEX NAME)



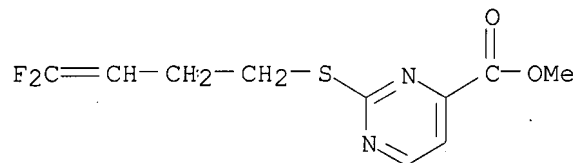
RN 155957-32-7 CAPLUS  
 CN 4-Pyrimidinecarbonitrile, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



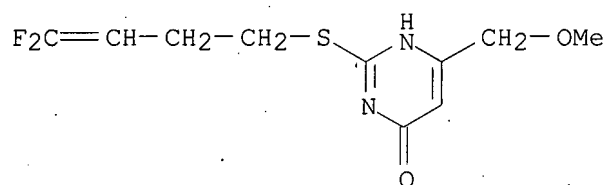
RN 155957-33-8 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



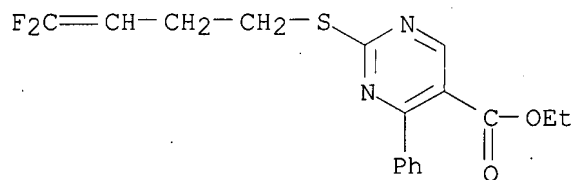
RN 155957-34-9 CAPLUS  
 CN 4-Pyrimidinecarboxylic acid, 2-[(4,4-difluoro-3-butenyl)thio]-, methyl ester (9CI) (CA INDEX NAME)



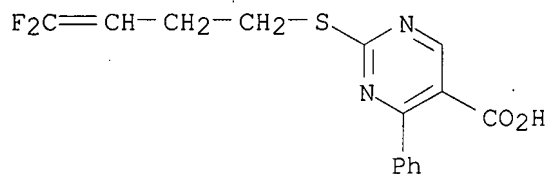
RN 155957-35-0 CAPLUS  
 CN 4(1H)-Pyrimidinone, 2-[(4,4-difluoro-3-butenyl)thio]-6-(methoxymethyl)- (9CI) (CA INDEX NAME)



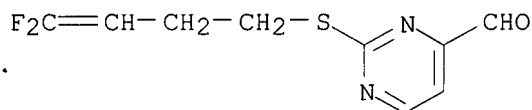
RN 155957-36-1 CAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 2-[(4,4-difluoro-3-butenyl)thio]-4-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 155957-37-2 CAPLUS  
 CN 5-Pyrimidinecarboxylic acid, 2-[(4,4-difluoro-3-butenyl)thio]-4-phenyl- (9CI) (CA INDEX NAME)

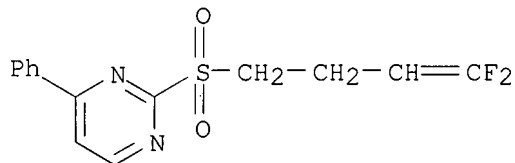


RN 155957-38-3 CAPLUS  
 CN 4-Pyrimidinecarboxaldehyde, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



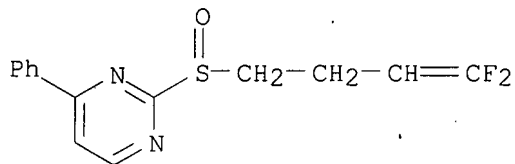
RN 155957-39-4 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfonyl]-4-phenyl- (9CI) (CA INDEX NAME)



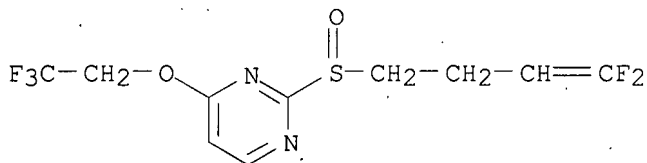
RN 155957-40-7 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfinyl]-4-phenyl- (9CI) (CA INDEX NAME)



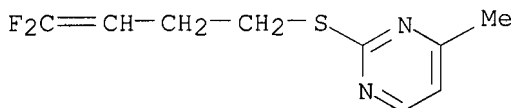
RN 155957-41-8 CAPLUS

CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)sulfinyl]-4-(2,2,2-trifluoroethoxy)- (9CI) (CA INDEX NAME)



RN 155957-65-6 CAPLUS

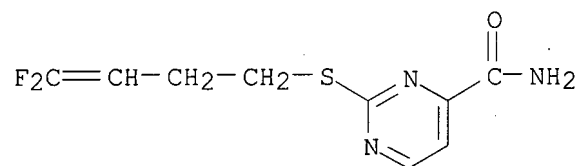
CN Pyrimidine, 2-[(4,4-difluoro-3-butenyl)thio]-4-methyl- (9CI) (CA INDEX NAME)



RN 155957-66-7 CAPLUS

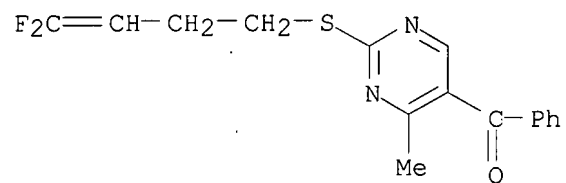
CN 4-Pyrimidinecarboxamide, 2-[(4,4-difluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

10/524,438



RN 155957-68-9 CAPLUS

CN Methanone, [2-[(4,4-difluoro-3-butenyl)thio]-4-methyl-5-pyrimidinyl]phenyl-  
(9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1993:80948 CAPLUS  
 DN 118:80948  
 TI Preparation of 2-trifluorobutenylthio-4-trifluorobutenyloxy pyrimidines  
 and analogs as nematocides  
 IN Turnbull, Michael Drysdale  
 PA Imperial Chemical Industries PLC, UK  
 SO Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 506269	A1	19920930	EP 1992-302214	19920313
	R: PT				
	CA 2083689	A1	19920929	CA 1992-2083689	19920317
	WO 9217459	A1	19921015	WO 1992-GB473	19920317
	W: AU, BG, BR, CA, CS, HU, JP, KR, MW, RO, RU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,				
	GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	AU 9215430	A	19921102	AU 1992-15430	19920317
	HU 61878	A2	19930329	HU 1992-3576	19920317
	EP 533869	A1	19930331	EP 1992-906658	19920317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	BR 9204798	A	19930831	BR 1992-4798	19920317
	JP 05509334	T	19931222	JP 1992-506391	19920317
	US 5270318	A	19931214	US 1992-853467	19920318
PRAI	GB 1991-6604	A	19910328		
	GB 1991-6606	A	19910328		
	WO 1992-GB473	A	19920317		

OS MARPAT 118:80948

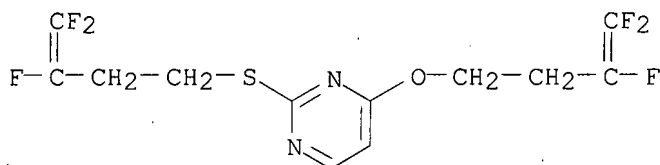
AB Title compds. [I; R = CH<sub>2</sub>CH<sub>2</sub>CF:CF<sub>2</sub>; R<sub>1</sub>, R<sub>2</sub> = H, (cyclo)alkyl, halo, alkoxy, Ph, etc.; R<sub>1</sub>R<sub>2</sub> = atoms to complete a ring; X = O, S; Y = H when n = 0; Y = O or S when n = 1] were prepared Thus, 2-thiouracil was condensed with BrCH<sub>2</sub>CH<sub>2</sub>CF:CF<sub>2</sub> to give title compound II which gave 99% reduction of root knots on tomato plants in Meloidogyne incognita-infested soil when applied as a drench at 2.5 ppm.

IT 145364-26-7P 145364-27-8P 145364-28-9P  
 145364-29-0P 145364-30-3P 145364-31-4P  
 145646-70-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as nematocide)

RN 145364-26-7 CAPLUS

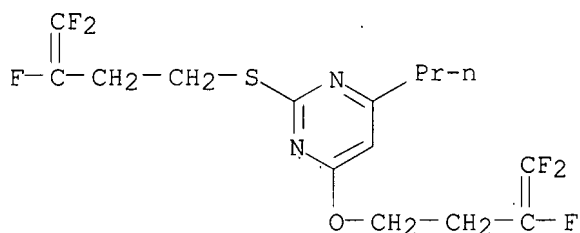
CN Pyrimidine, 4-[(3,4,4-trifluoro-3-butenyl)oxy]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



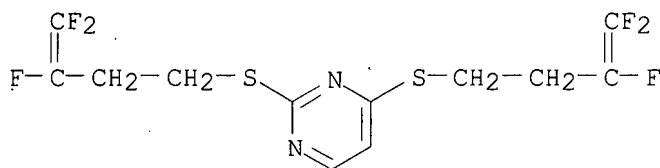
RN 145364-27-8 CAPLUS

CN Pyrimidine, 4-propyl-6-[(3,4,4-trifluoro-3-butenyl)oxy]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

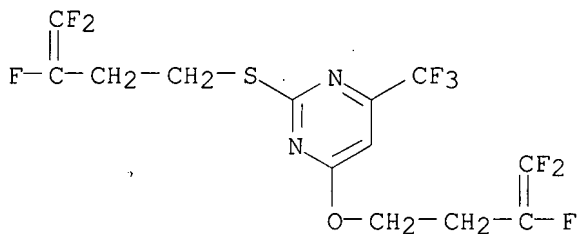




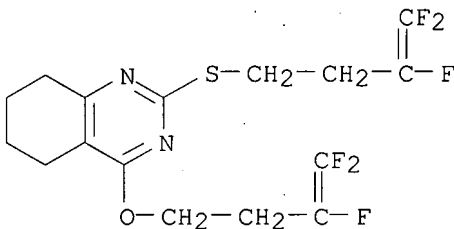
RN 145364-28-9 CAPLUS  
 CN Pyrimidine, 2,4-bis[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



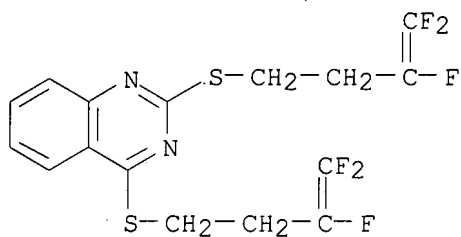
RN 145364-29-0 CAPLUS  
 CN Pyrimidine, 4-[(3,4,4-trifluoro-3-butenyl)oxy]-2-[(3,4,4-trifluoro-3-butenyl)thio]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 145364-30-3 CAPLUS  
 CN Quinazoline, 5,6,7,8-tetrahydro-4-[(3,4,4-trifluoro-3-butenyl)oxy]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

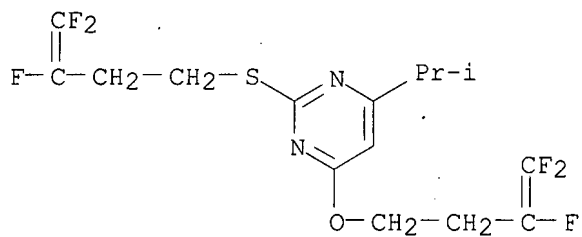


RN 145364-31-4 CAPLUS  
 CN Quinazoline, 2,4-bis[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145646-70-4 CAPLUS

CN Pyrimidine, 4-(1-methylethyl)-6-[(3,4,4-trifluoro-3-butenyl)oxy]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1993:59720 CAPLUS

DN 118:59720

TI Preparation of 2-(3,4,4-trifluoro-3-buten-1-yl thio)pyrimidines and related compounds as nematocides

IN Turnbull, Michael Drysdale; Finney, John

PA Imperial Chemical Industries PLC, UK

SO Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 506270	A1	19920930	EP 1992-302215	19920313
	R: PT				
	CA 2082508	A1	19920929	CA 1992-2082508	19920317
	WO 9217457	A1	19921015	WO 1992-GB472	19920317
	W: AU, BG, BR, CA, CS, HU, JP, KR, MW, RO, RU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	AU 9213748	A	19921102	AU 1992-13748	19920317
	EP 533870	A1	19930331	EP 1992-906748	19920317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	HU 62760	A2	19930628	HU 1992-3578	19920317
	BR 9204822	A	19930713	BR 1992-4822	19920317
	JP 05507726	T	19931104	JP 1992-506048	19920317
	US 5246938	A	19930921	US 1992-853213	19920318
PRAI	GB 1991-6605	A	19910328		
	GB 1991-6714	A	19910328		
	GB 1991-6715	A	19910328		
	WO 1992-GB472	A	19920317		

OS MARPAT 118:59720

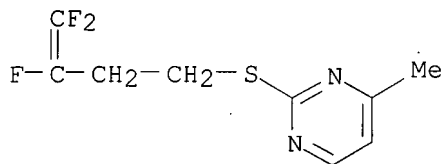
AB Title compds. [I; R1-R3 = H, (halo)alkyl, alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, halo, (halo)alkoxy, alkoxyalkyl, alkylthio, cyano, NO2, amino, OH, acylamino, carboxy, (substituted) Ph, PhO, PhCH2, PhCH2O, etc.; R2R3 = atoms to form a 5- or 6-membered ring; n = 0-2], were prepared Thus, 4-hydroxy-2-mercapto-6-trifluoromethylpyrimidine was refluxed with 4-bromo-1,1,2-trifluorobut-1-ene and K2CO3 in acetone to give 70% I (R1 = CF3, R2 = H, R3 = OH, n = 0). I as 40 ppm soil drenches gave 66-100% root knot reduction on cucumber plants infested with Meloidogyne incognita.

IT 4871-72-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as intermediate for nematocide)

RN 4871-72-1 CAPLUS

CN Pyrimidine, 4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (7CI, 8CI, 9CI)  
(CA INDEX NAME)



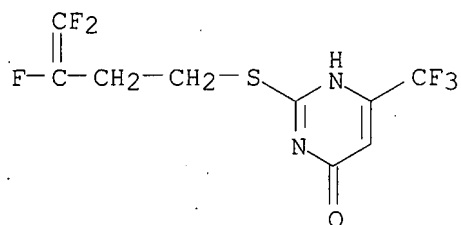
IT 145320-68-9P 145320-69-0P 145320-70-3P  
145320-71-4P 145320-72-5P 145320-73-6P  
145320-74-7P 145320-75-8P 145320-76-9P

145320-77-0P 145320-78-1P 145320-79-2P  
 145320-80-5P 145320-81-6P 145320-82-7P  
 145320-83-8P 145320-84-9P 145320-85-0P  
 145320-86-1P 145320-87-2P 145320-88-3P  
 145320-89-4P 145320-90-7P 145320-91-8P  
 145320-92-9P 145320-93-0P 145320-94-1P  
 145320-95-2P 145320-96-3P 145336-31-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as nematocide)

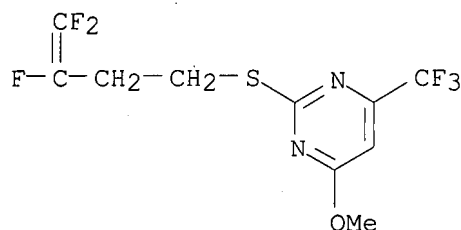
RN 145320-68-9 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[(3,4,4-trifluoro-3-butenyl)thio]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



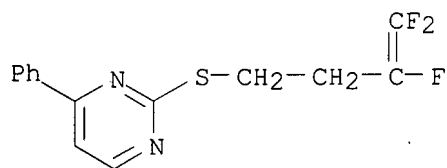
RN 145320-69-0 CAPLUS

CN Pyrimidine, 4-methoxy-2-[(3,4,4-trifluoro-3-butenyl)thio]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



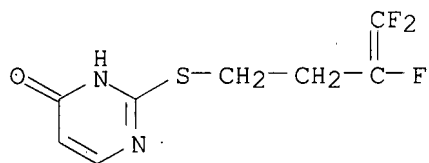
RN 145320-70-3 CAPLUS

CN Pyrimidine, 4-phenyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

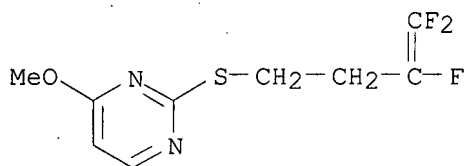


RN 145320-71-4 CAPLUS

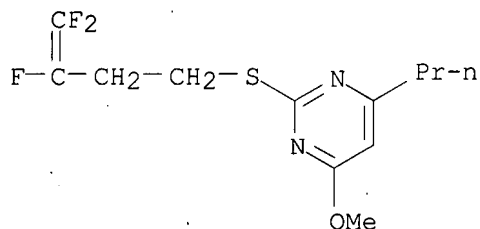
CN 4(1H)-Pyrimidinone, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



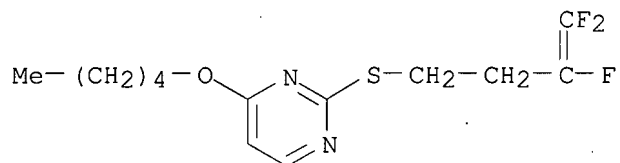
RN 145320-72-5 CAPLUS  
 CN Pyrimidine, 4-methoxy-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



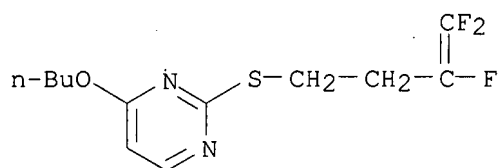
RN 145320-73-6 CAPLUS  
 CN Pyrimidine, 4-methoxy-6-propyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145320-74-7 CAPLUS  
 CN Pyrimidine, 4-(pentyloxy)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



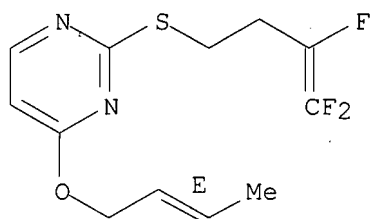
RN 145320-75-8 CAPLUS  
 CN Pyrimidine, 4-butoxy-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145320-76-9 CAPLUS

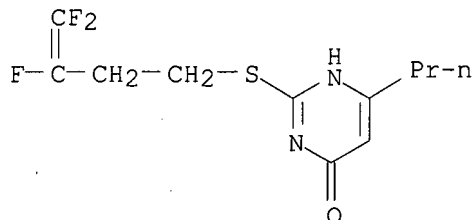
CN Pyrimidine, 4-(2-butenyloxy)-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (E)-  
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



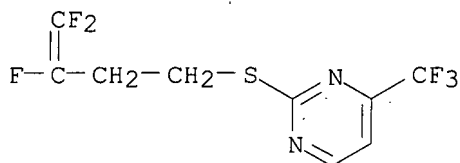
RN 145320-77-0 CAPLUS

CN 4(1H)-Pyrimidinone, 6-propyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



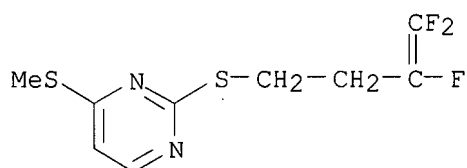
RN 145320-78-1 CAPLUS

CN Pyrimidine, 2-[(3,4,4-trifluoro-3-butenyl)thio]-4-(trifluoromethyl)- (9CI)  
(CA INDEX NAME)



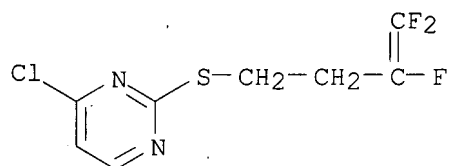
RN 145320-79-2 CAPLUS

CN Pyrimidine, 4-(methylthio)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA  
INDEX NAME)



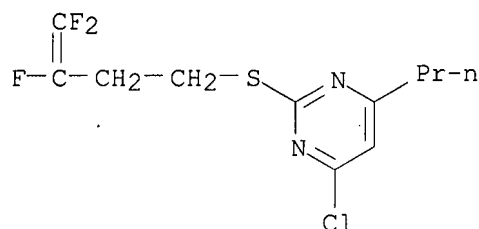
RN 145320-80-5 CAPLUS

CN Pyrimidine, 4-chloro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



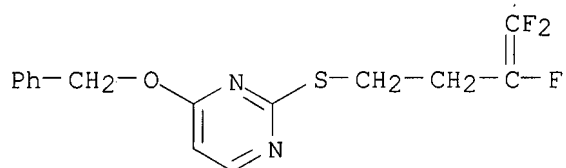
RN 145320-81-6 CAPLUS

CN Pyrimidine, 4-chloro-6-propyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



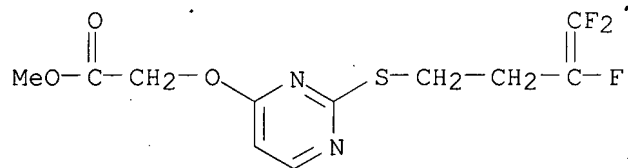
RN 145320-82-7 CAPLUS

CN Pyrimidine, 4-(phenylmethoxy)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



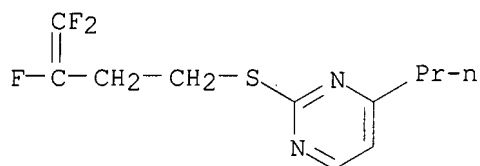
RN 145320-83-8 CAPLUS

CN Acetic acid, [[2-[(3,4,4-trifluoro-3-butenyl)thio]-4-pyrimidinyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



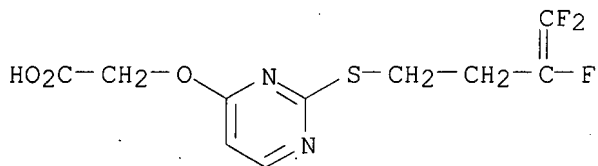
RN 145320-84-9 CAPLUS

CN Pyrimidine, 4-propyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



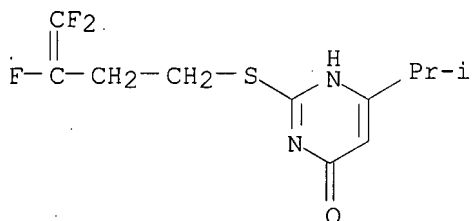
RN 145320-85-0 CAPLUS

CN Acetic acid, [[2-[(3,4,4-trifluoro-3-butenyl)thio]-4-pyrimidinyl]oxy]- (9CI) (CA INDEX NAME)



RN 145320-86-1 CAPLUS

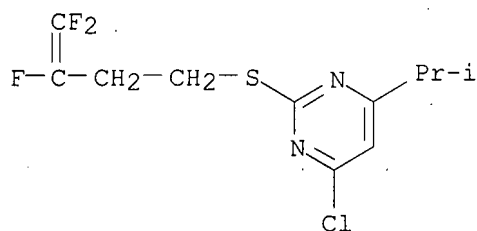
CN 4(1H)-Pyrimidinone, 6-(1-methylethyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145320-87-2 CAPLUS

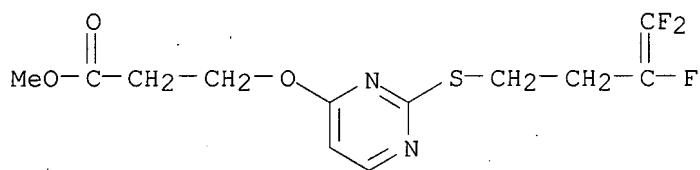
CN Pyrimidine, 4-chloro-6-(1-methylethyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)





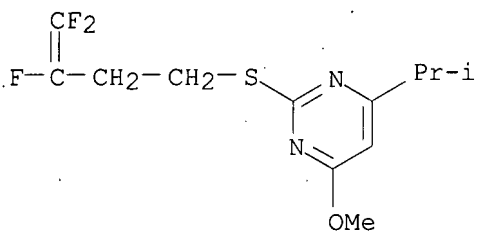
RN 145320-88-3 CAPLUS

CN Propanoic acid, 3-[[2-[(3,4,4-trifluoro-3-butenyl)thio]-4-pyrimidinyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



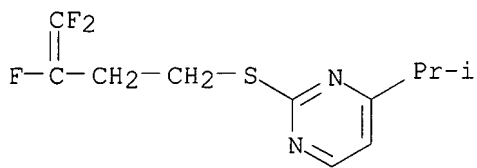
RN 145320-89-4 CAPLUS

CN Pyrimidine, 4-methoxy-6-(1-methylethyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



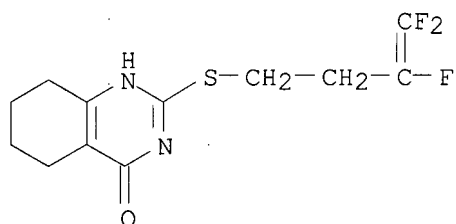
RN 145320-90-7 CAPLUS

CN Pyrimidine, 4-(1-methylethyl)-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



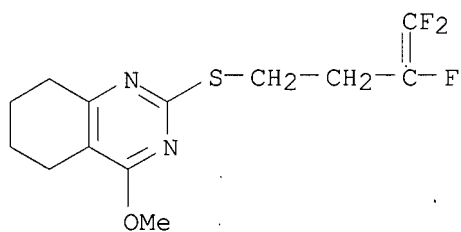
RN 145320-91-8 CAPLUS

CN 4(1H)-Quinazolinone, 5,6,7,8-tetrahydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



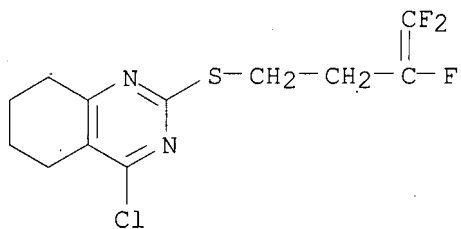
RN 145320-92-9 CAPLUS

CN Quinazoline, 5,6,7,8-tetrahydro-4-methoxy-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



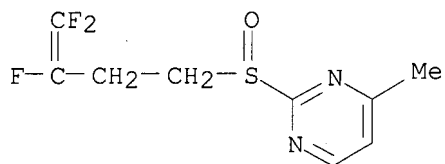
RN 145320-93-0 CAPLUS

CN Quinazoline, 4-chloro-5,6,7,8-tetrahydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



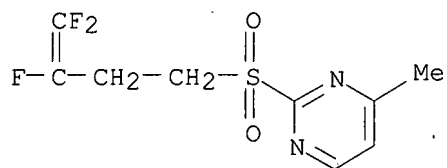
RN 145320-94-1 CAPLUS

CN Pyrimidine, 4-methyl-2-[(3,4,4-trifluoro-3-butenyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 145320-95-2 CAPLUS

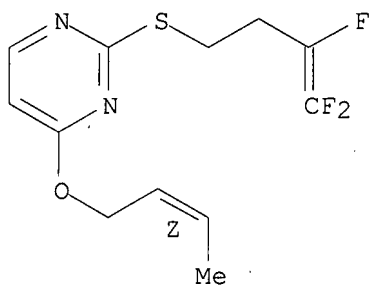
CN Pyrimidine, 4-methyl-2-[(3,4,4-trifluoro-3-butenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 145320-96-3 CAPLUS

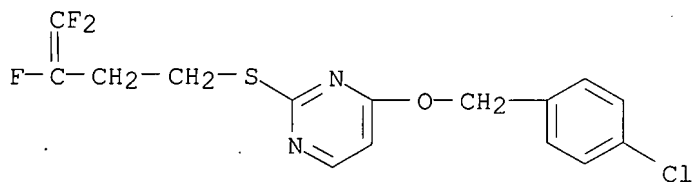
CN Pyrimidine, 4-(2-butenyloxy)-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (Z)-  
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 145336-31-8 CAPLUS

CN Pyrimidine, 4-[(4-chlorophenyl)methoxy]-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1993:38938 CAPLUS  
 DN 118:38938  
 TI Preparation of 4-(3,4,4-trifluoro-3-buten-1-ylthio)pyrimidines and related compounds as nematocides  
 IN Turnbull, Michael Drysdale  
 PA Imperial Chemical Industries PLC, UK  
 SO Eur. Pat. Appl., 18 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 506271	A1	19920930	EP 1992-302216	19920313
	R: PT				
	CA 2083690	A1	19920929	CA 1992-2083690	19920317
	WO 9217458	A1	19921015	WO 1992-GB474	19920317
	W: AU, BG, BR, CA, CS, HU, JP, KR, MW, RO, RU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
	AU 9213785	A	19921102	AU 1992-13785	19920317
	EP 533868	A1	19930331	EP 1992-906573	19920317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	HU 62759	A2	19930628	HU 1992-3577	19920317
	BR 9204823	A	19930817	BR 1992-4823	19920317
	JP 05507727	T	19931104	JP 1992-506049	19920317
	US 5250536	A	19931005	US 1992-853456	19920318
PRAI	GB 1991-6609	A	19910328		
	WO 1992-GB474	A	19920317		

OS MARPAT 118:38938

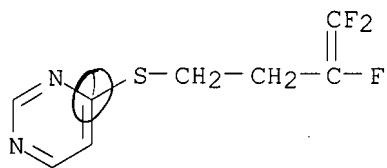
AB Title compds. [I; R1-R3 = H, (halo)alkyl, (halo)alkoxy, alkenyl, alkynyl, (alkyl)cycloalkyl, halo, alkenyloxy, alkoxyalkyl, alkylthio, cyano, NO2, amino, OH, carboxy, (substituted) Ph, PhO, PhCH2, PhCH2O, etc.; R2R3 = atoms to form a 5-6 membered ring; n = 0-2] were prepared. Thus, 4-hydroxypyrimidine was refluxed with P2S5 in pyridine to give 36% 4-mercaptopyrimidine. This was refluxed with 4-bromo-1,1,2-trifluorobut-1-ene and K2CO3 in acetone for 1.5 h to give 79% I (R1-R3 = H, n = 0). The latter as a 40-ppm soil drench gave 94% reduction in root knots in cucumbers infested with *Meloidogyne incognita*.

IT 145024-51-7P 145024-52-8P 145024-53-9P  
 145024-54-0P 145024-55-1P 145024-56-2P  
 145024-57-3P 145024-58-4P 145024-59-5P  
 145024-60-8P 145024-61-9P 145024-62-0P  
 145024-63-1P 145024-64-2P 145024-65-3P  
 145024-66-4P 145024-67-5P 145024-68-6P  
 145024-69-7P 145024-70-0P 145024-71-1P  
 145024-72-2P 145024-73-3P

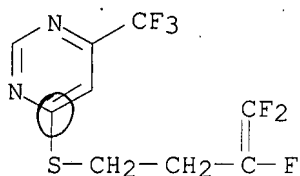
RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as nematocide)

RN 145024-51-7 CAPLUS

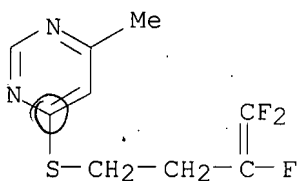
CN Pyrimidine, 4-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



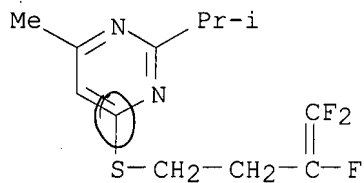
RN 145024-52-8 CAPLUS  
 CN Pyrimidine, 4-[(3,4,4-trifluoro-3-butenyl)thio]-6-(trifluoromethyl)- (9CI)  
 (CA INDEX NAME)



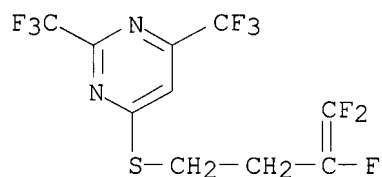
RN 145024-53-9 CAPLUS  
 CN Pyrimidine, 4-methyl-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



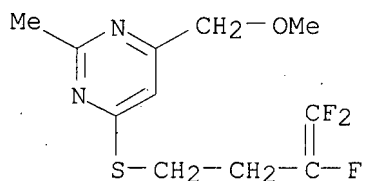
RN 145024-54-0 CAPLUS  
 CN Pyrimidine, 4-methyl-2-(1-methylethyl)-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145024-55-1 CAPLUS  
 CN Pyrimidine, 4-[(3,4,4-trifluoro-3-butenyl)thio]-2,6-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)

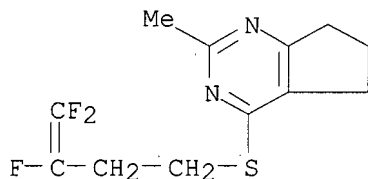


RN 145024-56-2 CAPLUS

CN Pyrimidine, 4-(methoxymethyl)-2-methyl-6-[(3,4,4-trifluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)

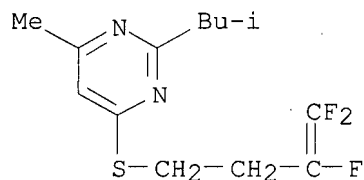
RN 145024-57-3 CAPLUS

CN 5H-Cyclopentapyrimidine, 6,7-dihydro-2-methyl-4-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



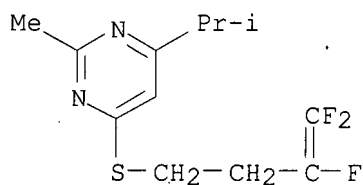
RN 145024-58-4 CAPLUS

CN Pyrimidine, 4-methyl-2-(2-methylpropyl)-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

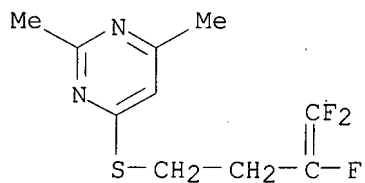


RN 145024-59-5 CAPLUS

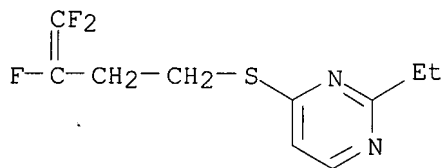
CN Pyrimidine, 2-methyl-4-(1-methylethyl)-6-[(3,4,4-trifluoro-3-butenyl)thio]-  
(9CI) (CA INDEX NAME)



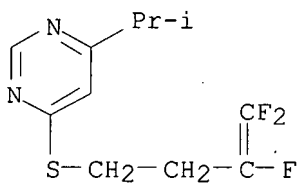
RN 145024-60-8 CAPLUS  
 CN Pyrimidine, 2,4-dimethyl-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



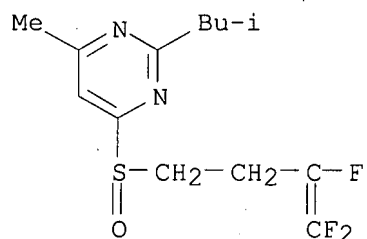
RN 145024-61-9 CAPLUS  
 CN Pyrimidine, 2-ethyl-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145024-62-0 CAPLUS  
 CN Pyrimidine, 4-(1-methylethyl)-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

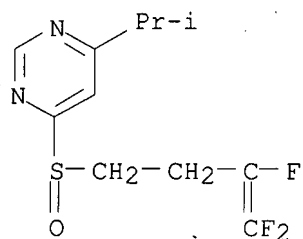


RN 145024-63-1 CAPLUS  
 CN Pyrimidine, 4-methyl-2-(2-methylpropyl)-6-[(3,4,4-trifluoro-3-butenyl)sulfinyl]- (9CI) (CA INDEX NAME)



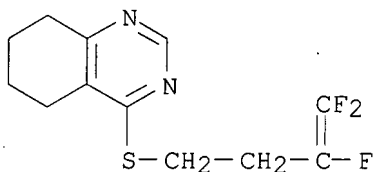
RN 145024-64-2 CAPLUS

CN Pyrimidine, 4-(1-methylethyl)-6-[(3,4,4-trifluoro-3-butenyl)sulfinyl]-  
(9CI) (CA INDEX NAME)



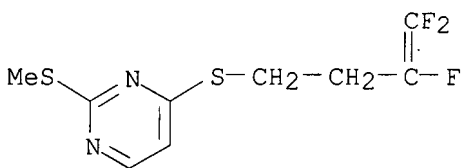
RN 145024-65-3 CAPLUS

CN Quinazoline, 5,6,7,8-tetrahydro-4-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI)  
(CA INDEX NAME)



RN 145024-66-4 CAPLUS

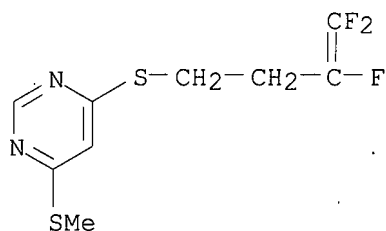
CN Pyrimidine, 2-(methylthio)-4-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA  
INDEX NAME)



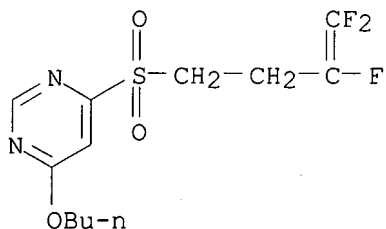
RN 145024-67-5 CAPLUS

CN Pyrimidine, 4-(methylthio)-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA  
INDEX NAME)

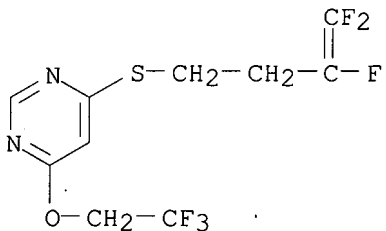




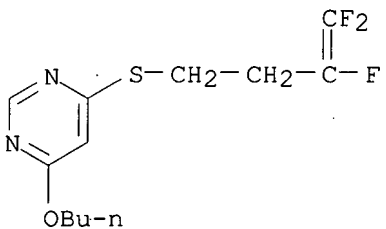
RN 145024-68-6 CAPLUS  
 CN Pyrimidine, 4-butoxy-6-[(3,4,4-trifluoro-3-butenyl)sulfonyl]- (9CI) (CA INDEX NAME)



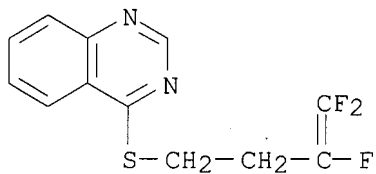
RN 145024-69-7 CAPLUS  
 CN Pyrimidine, 4-[(3,4,4-trifluoro-3-butenyl)thio]-6-(2,2,2-trifluoroethoxy)- (9CI) (CA INDEX NAME)



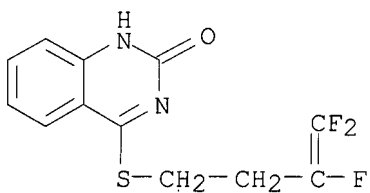
RN 145024-70-0 CAPLUS  
 CN Pyrimidine, 4-butoxy-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



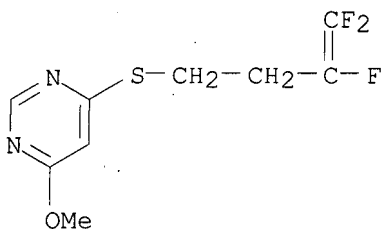
RN 145024-71-1 CAPLUS  
 CN Quinazoline, 4-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145024-72-2 CAPLUS  
 CN 2(1H)-Quinazolinone, 4-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



RN 145024-73-3 CAPLUS  
 CN Pyrimidine, 4-methoxy-6-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1984:6853 CAPLUS  
 DN 100:6853  
 TI Fungicidal and insecticidal 2-[(haloalkenyl)thio]-4-(  
 (dialkoxyposphinothioxyloxy)-6-alkylpyrimidines  
 IN Edwards, Laroy H.  
 PA USA  
 SO U.S., 10 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4402952	A	19830906	US 1981-313547	19811022
PRAI	US 1981-313547		19811022		

OS CASREACT 100:6853; MARPAT 100:6853

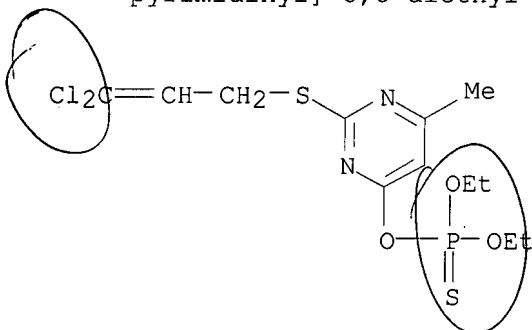
AB About 19 pyrimidines I (R, R1 = alkyl; R2 = H, alkyl, alkoxy; X, Y, Z = H, halo) were prepared from 2-mercapto-4-hydroxypyrimidines. Thus, refluxing 2-mercapto-4-hydroxy-6-methylpyrimidine with H2C:CClCH2Cl in EtOH in the presence of K2CO3 8 h gave II. II was refluxed with K2CO3 in acetone for 2 h, treated with (EtO)2P(S)Cl and further refluxed to give I (R = R1 = Et; R2 = Me; X = Cl; Y = Z = H) (III). III gave 98% control of bean powdery mildew and 99% control of aphids at 40 ppm.

IT 88037-16-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and fungicidal and insecticidal activity of)

RN 88037-16-5 CAPLUS

CN Phosphorothioic acid, O-[2-[(3,3-dichloro-2-propenyl)thio]-6-methyl-4-pyrimidinyl] O,O-diethyl ester (9CI) (CA INDEX NAME)

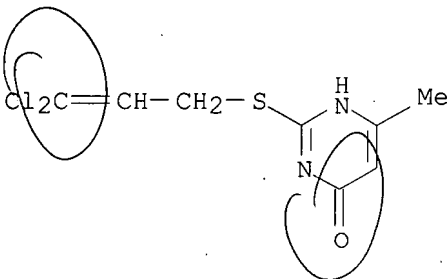


IT 88037-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reaction with dialkyl phosphorochloridothioate)

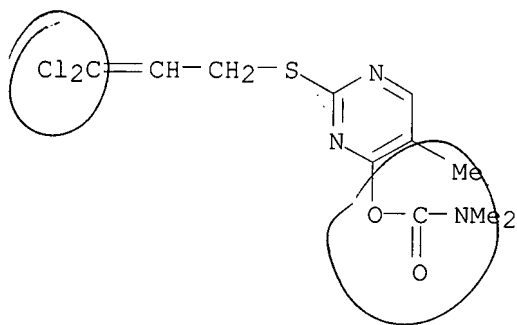
RN 88037-19-8 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[(3,3-dichloro-2-propenyl)thio]-6-methyl- (9CI) (CA INDEX NAME)

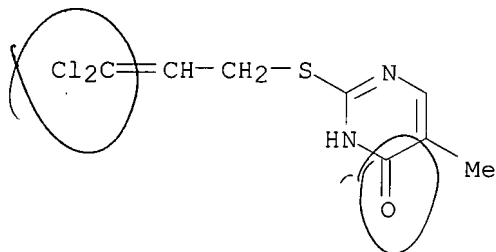


L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1982:85574 CAPLUS  
 DN 96:85574  
 TI 4-[(N,N-Dimethylcarbamoyl)oxy]-5-methylpyrimidines and their use in  
 combating pests, and 4-hydroxy-5-methyl pyrimidines used as intermediates  
 IN Gsell, Laurenz; Meyer, Willy  
 PA Ciba-Geigy A.-G. , Switz.  
 SO Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 36839	A2	19810930	EP 1981-810098	19810316
	R: AT, BE, CH, DE, FR, GB, IT, NL				
	JP 56147775	A	19811116	JP 1981-41625	19810320
PRAI	CH 1980-2197	A	19800320		
	CH 1981-972	A	19810213		
AB	I [R = C1-4 alkyl, haloalkyl, cyanoalkyl, (C1-4-alkoxy)-C1-4-alkyl, (C1-4-alkylthio)-C1-4-alkyl, C2-5 alkenyl, alkynyl, or haloalkenyl; n = 0-2] were prepared and shown to have insecticidal activity. Thus, OHCH <sub>2</sub> CO <sub>2</sub> Me was cyclized with thiourea in EtOH containing K <sub>2</sub> CO <sub>3</sub> to give II, which was methylated with MeI, then treated with Me <sub>2</sub> NCOC <sub>2</sub> H <sub>5</sub> to give III.				
IT	80477-32-3P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and insecticidal activity of)				
RN	80477-32-3 CAPLUS				
CN	Carbamic acid, dimethyl-, 2-[(3,3-dichloro-2-propenyl)thio]-5-methyl-4-pyrimidinyl ester (9CI) (CA INDEX NAME)				

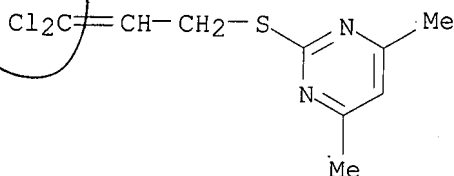


IT 80477-26-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction with dimethylcarbamoyl chloride)  
 RN 80477-26-5 CAPLUS  
 CN 4(1H)-Pyrimidinone, 2-[(3,3-dichloro-2-propenyl)thio]-5-methyl- (9CI) (CA INDEX NAME)

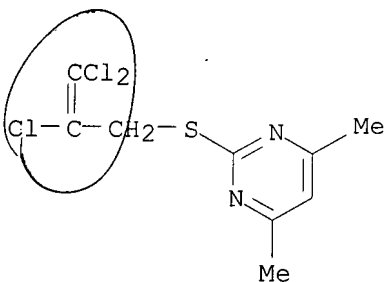


L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1971:100080 CAPLUS  
 DN 74:100080  
 TI 2-(Haloalkenylthio)-4,6-dimethylpyrimidines, useful for controlling the growth of undesirable vegetation  
 IN D'Amico, John J.  
 PA Monsanto Co.  
 SO U.S., 2 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3557112	A	19710119	US 1969-803050	19690227
PRAI	US 1969-803050	A	19690227		
AB	To a solution containing 44.2 g I (R = H).HCl, 80 g 25% NaOH, and 300 ml of H <sub>2</sub> O was added 31.2 g 1,3-dichloro-2-butene. The stirred mixture was heated 24 hr to give I (R = CH <sub>2</sub> CH:CClMe). Similarly prepared were: I (R given): CH <sub>2</sub> CHBr:CH <sub>2</sub> , cis- and trans-CH <sub>2</sub> CCl:CHCl; CH <sub>2</sub> CH:CCl <sub>2</sub> , CH <sub>2</sub> CCl:CCl <sub>2</sub> . These compds. are very effective when used as preemergent herbicide.				
IT	31406-46-9P 31406-47-0P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	31406-46-9 CAPLUS				
CN	Pyrimidine, 2-[(3,3-dichloroallyl)thio]-4,6-dimethyl- (8CI) (CA INDEX NAME)				

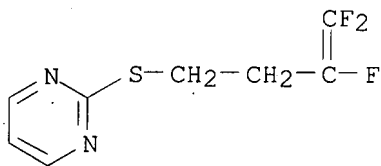


RN 31406-47-0 CAPLUS  
 CN Pyrimidine, 4,6-dimethyl-2-[(2,3,3-trichloroallyl)thio]- (8CI) (CA INDEX NAME)

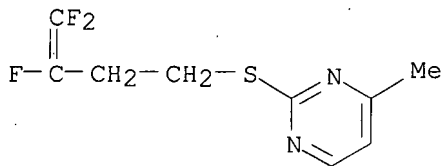


L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1966:27611 CAPLUS  
 DN 64:27611  
 OREF 64:5110f-g  
 TI 2-(Trifluorobutenylthio)pyrimidines  
 IN Brokke, Mervin E.  
 PA Stauffer Chemical Co.  
 SO 1 p.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3223707		19651214	US 1963-332857	19631223
PRAI	US		19631223		
AB	To a stirred suspension of 19 g. 4-bromo-1,1,2-trifluoro-1-butene and 14.9 g. 2-meraptopyridine hydrochloride in 200 cc. MeOH was added 8 g. NaOH in 50 cc. H <sub>2</sub> O. The mixture was stirred and refluxed for 2 hrs. to give 2-(3,4,4-trifluorobuten-3-ylthio)pyrimidine, b0.8 80°. Similarly prepared were 4-methyl-2-(3,4,4-trifluorobuten-3-ylthio)pyrimidine, b0.1 78°, and 4,6-dimethyl-2-(3,4,4-trifluorobuten-3-ylthio)pyrimidine, n20D 1.5032. The compds. were effective against root-knot nematodes.				
IT	4871-71-0P, Pyrimidine, 2-[(3,4,4-trifluoro-3-butenyl)thio]- 4871-72-1P, Pyrimidine, 4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- 4871-73-2P, Pyrimidine, 4,6-dimethyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- RL: PREP (Preparation) (preparation of)				
RN	4871-71-0 CAPLUS				
CN	Pyrimidine, 2-[(3,4,4-trifluoro-3-butenyl)thio]- (7CI, 8CI) (CA INDEX NAME)				

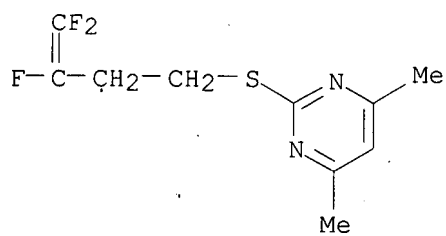


RN 4871-72-1 CAPLUS  
 CN Pyrimidine, 4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (7CI, 8CI, 9CI)  
 (CA INDEX NAME)



RN 4871-73-2 CAPLUS  
 CN Pyrimidine, 4,6-dimethyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (7CI, 8CI)  
 (CA INDEX NAME)

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=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

74.25

247.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-10.92

-10.92

STN INTERNATIONAL LOGOFF AT 23:00:03 ON 31 JUL 2007